

2023 North Carolina Youth and Young Adult Substance Use Prevention Survey Results



December 2024



Wake Forest University
School of Medicine

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Acknowledgments:

This work is supported by the North Carolina Division of Mental Health, Developmental Disabilities, and Substance Use Services, Community Wellness, Prevention, and Health Integration Section, with funding from the Substance Abuse and Mental Health Services Administration (SAMSHA). The views, opinions, and content of this report are those of the authors and do not necessarily the views, opinions, or policies of the funding agencies.

Recommended Citation:

Pankratz, M.M., Ballard, P.J., Egan, K.L, McCoy, T., Daniel, J.E., Yassa, R., Moore, J., & Rhodes, S.D. (2024). 2023 North Carolina Youth and Young Adult Substance Use Prevention Survey Results. Wake Forest University School of Medicine, Winston-Salem, NC.

Survey Background

Purpose of the Survey

The North Carolina Youth and Young Adult Substance Use Prevention Survey was conducted to provide information for data-driven decision-making regarding substance use prevention in the state. Its objective was to gather information on substance use behaviors, and to understand important factors contributing to these behaviors, including how substances were accessed and their associated risk and protective factors.

Participant Recruitment and Data Gathering

The survey took place between December 2022 and February 2023 via telephone interviews, with each interview averaging 29 minutes in length. A total of 15,000 youths and young adults aged 12 to 25 were surveyed across 25 geographic regions within North Carolina. These regions were selected in collaboration with the UNC Carolina Population Center to ensure representation of geographic and population density, while also factoring in commuting patterns, minority population proportions, median household income, unemployment rates, population growth trends, and the influence of shared institutions. Participants were recruited through Qualtrics, using databases that likely included the target demographic and/or their parents, aiming for 300 individuals aged 12-18 and 300 individuals aged 19-25 in each region. Screening, consent, and interviews were administered by trained interviewers via telephone. Participants received compensation for their time in the form of points valued at \$25, redeemable for qualified rewards through Qualtrics.

Data Weighting and Analysis

The data were weighted to reflect the population of North Carolina's 1,935,361 young people aged 12-25, considering our quota sampling, survey non-response, and the demographic imbalance between the sample and the population. The specific variables used for weighting included: (1) age; (2) race and ethnicity; (3) sex and gender; (4) sexual orientation; (5) school enrollment status; (5) parental education (for those aged 12-18); and (6) household income (for those aged 19-25).

The report is structured into four main sections: 1) population characteristics; 2) substance use and risk and protective factors; 3) harm reduction and recovery; and 4) stress and mental health issues. For reporting purposes, scaled items were categorized into high and low values, as indicated by the measure labels.

Weighted frequencies are presented separately for those aged 12-20 (individuals under the legal age for purchasing alcohol, tobacco, and legal cannabis products) and those aged 21-25 (young adults who can legally purchase alcohol, tobacco, and legal cannabis products).

Key Findings

Substance Use Behaviors

Substance use among North Carolina youth and young adults shows distinct patterns that warrant attention.

Alcohol and nicotine products were the **most commonly used substances**, followed by medications, cannabis-related products, and other legally available substances. The persistent use of these substances necessitates continued action to prevent and delay their use.

Emerging substances of concern include **cannabis-related products**,

kratom, and hallucinogens. Use of these products may be affected by evolving state policies. Proactive monitoring of these substances is essential as changes in retail availability could impact youth use.

While the use of **cocaine, heroin and fentanyl, and methamphetamine** was infrequent, they remain of serious concern due to their strong association with **overdose**. Their continued surveillance is critical for guiding intervention efforts.

Youth vs Young Adult Substance Use (Ever)

Substance Type	Substance	Youth	Young Adult
Alcohol	Alcohol	15.5%	48.1%
Nicotine products	Cigarettes	16.7%	43.9%
	Nicotine vapes	11.5%	29.8%
	Smokeless tobacco	3.4%	9.0%
	Cigar products	2.4%	14.2%
	Oral nicotine products	1.8%	8.0%
Medications	Prescription medication misuse	4.3%	20.4%
	OTC Medications	18.6%	22.3%
Cannabis-related products	Cannabis (pot, weed)	4.3%	20.3%
	CBD	1.7%	8.6%
	Delta 8/10/P	0.9%	6.1%
	Synthetic Cannabis	0.6%	3.3%
Other legally available products	Kratom	7.2%	15.1%
	Inhalants	1.8%	6.2%
	Steroids	0.7%	2.6%
Other not legally available products	Hallucinogens	1.2%	7.0%
	Cocaine	0.9%	5.8%
	Heroin or Fentanyl	0.9%	3.3%
	Methamphetamines	0.5%	2.7%
Polysubstance use	Polysubstance use	4.8%	23.5%

Access to Substances

Understanding how youth access substances is critical for making substance use prevention decisions.

Youth access to substances is primarily driven by **social sources**, with **friends** being the most common source for **alcohol, cigarettes, nicotine vapes, and cannabis**. Someone other than a friend or family member was the second most likely source for these substances. Youth who misused **prescription medications** were most likely to **use their own medication differently than told** or to be **given medications by a family member**. Additionally, **youth reported taking substances without permission**

from homes, particularly **alcohol, prescription medications, cigarettes, and nicotine vapes** —highlighting the need for increased awareness around secure storage and monitoring within households.

Although less frequent, youth also reported obtaining substances from **retail sources**, especially **nicotine vapes and cigarettes**, and to a lesser extent **alcohol**, suggesting gaps in retail enforcement of age of sale restrictions.

Youth Access to Substances

Type of Source	Source	Alcohol	Cigarettes	Nicotine vapes	Prescription Medications	Cannabis
Social Sources	A friend	76.9%	44.2%	46.2%	5.3%	77.3%
	A family member	2.8%	0.2%	0.3%	20.8%	2.0%
	Someone else	3.8%	35.2%	40.4%	3.1%	18.9%
	My own medication	--	--	--	62.4%	--
	Took it without permission from a friend, family member, or someone else, or a home	12.4%	8.1%	6.3%	8.4%	1.5%
Retail Sources	Bought it from a specialty store	2.9%	6.8%	6.3%	--	0.2%
	Bought from a supermarket, discount store, grocery store, or warehouse store	0.4%	2.6%	2.6%	--	--
	Bought from a convenience store or gas station	0.1%	2.6%	0.9%	--	--
	Bought from a restaurant, bar, or club or at public event	0.3%	0.2%	0.4%	--	--
	Took it without permission from a store or public event (or healthcare organization)	0.5%	0.20%	0.0%	0.0%	--

Risk and Protective Factors

Perceptions of harm, social disapproval, and likelihood of being caught serve as key protective factors against use. In general, youth:

- Perceived substance use as harmful;
- Believed their friends, parents, and other adults disapprove of their using substances; and
- Expected they would be caught if they use substances.

Among youth, these protective perceptions were strongest for cannabis and prescription medications, and to a lesser extent alcohol. These protective perceptions were weakest for nicotine vapes, which stood out for notably lower perceived harms and disapproval, and to a lesser extent cigarettes.

In contrast, easy access to substances is a significant risk factor for substance use. Concernedly, many youth thought that nicotine products, alcohol, and even prescription medications would be easy to obtain.

Young adults showed similar patterns in risk and protective factors, however, they were much less likely than youth to perceive of substance use as harmful or as disapproved of by others.

These findings underscore the importance of prevention efforts that focus on reinforcing and sustaining the strong protective perceptions formed in childhood as young people transition into adolescence and also into early adulthood. In addition, prevention strategies should include efforts to secure and monitor substances at home, monitor and enforce school-based substance use policies, and strengthen compliance with retail age-of-sale laws.

Risk and Protective Factors by Substance

Risk and protective factors	Alcohol		Cigarettes		Nicotine Vapes		Prescription Medications		Cannabis	
	Youth	Young adults	Youth	Young adults	Youth	Young adults	Youth	Young adults	Youth	Young adults
Perceived Harmful	86.7%	69.6%	86.3%	76.4%	63.2%	50.5%	92.7%	88.4%	94.8%	85.3%
Friends Disapprove	71.4%	42.2%	56.6%	28.2%	43.3%	27.0%	79.5%	68.2%	86.6%	69.0%
Parents Disapprove	96.0%	83.1%	91.2%	75.3%	83.8%	63.3%	90.8%	89.2%	98.6%	97.3%
Adults Disapprove*	84.9%		71.6%		57.1%		83.0%		91.6%	
Parents Would Catch*	90.7%		75.1%		63.6%		74.7%		89.1%	
School Would Catch*	90.3%		73.4%		61.7%		66.0%		87.9%	
Police Would Catch*	90.9%		67.4%		55.5%		60.4%		89.5%	
Few/No Friends Use	63.1%	17.3%	58.0%	19.1%	60.2%	34.1%	88.5%	74.3%	92.6%	69.6%
Parents Rarely/Never Use	26.9%	25.2%	45.2%	41.7%	74.0%	67.9%	--	--	--	--
Difficult to Get	40.5%	2.9%	27.5%	1.3%	29.7%	5.0%	62.3%	26.5%	82.0%	37.5%





Additional Analyses

As detailed above, the results revealed informative patterns and divergences across substances by age, how substances were accessed, and by risk and protective factors that are important to consider in making prevention decisions. Additional analyses and data highlights are included in this report, as well as on the North Carolina Substance Use Prevention Data Dashboard, which includes data by prevention regions, prevention


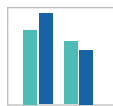

provider areas, and coalitions. North Carolina Youth and Young Adult Substance Use Prevention Survey presentations, reports, manuscripts, and the North Carolina Substance Use Prevention Data Dashboard are available at: school.wakehealth.edu/about-the-school/prevention-resource-repository.

Report Format

The report is divided into four sections:

-  Population characteristics are in green;
-  Substance use behaviors and risk and protective factors, with youth in teal and young adults in blue;
-  Harm reduction and recovery, with youth in teal and young adults in orange; and
-  Mental health and stress, with youth in teal and young adults in purple.

The report uses different types of graphics to indicate different populations and types of data:




-  Donut graphics describe population characteristics;
-  Column charts describe the population knowledge, attitudes, and behaviors;
-  Bar charts describe a subset of the population's knowledge, attitudes, and behaviors (these graphs are surrounded by a border, with light shading).

The data is ordered for consistency and clarity:

Donut graphs start with the top left donut wedge, and begin with the lowest category for ordered data (i.e., age, parental education, household income, education level, and school enrollment) and the largest proportion of the population for non-ordered data; and

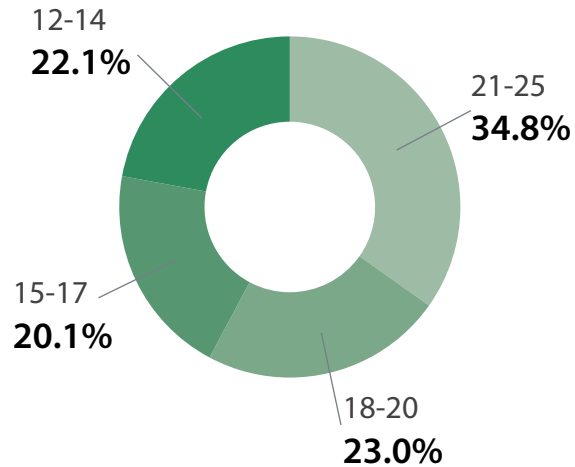
Column and bar charts are ordered within categories, and then from the highest to lowest prevalence for the youth population, (e.g., substance use is ordered by type of product, and then individual substances in that product type for youth).

Important findings are emphasized in different ways for different types of data:

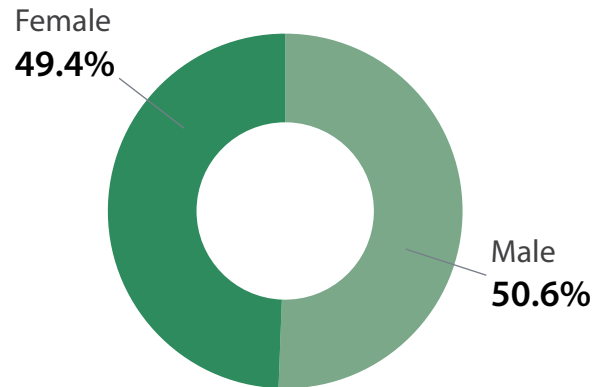
-  Population characteristics findings are at the bottom center of the page, in a gradient shaded box;
-  Population knowledge, attitudes, and behavior findings are in a shaded box between the chart title and the data, pointing to the relevant data; and
-  Findings for knowledge, attitudes, and behavior for a subset of the population are typically to the right of the data, inside an unshaded box and pointing to the relevant data.

Demographics

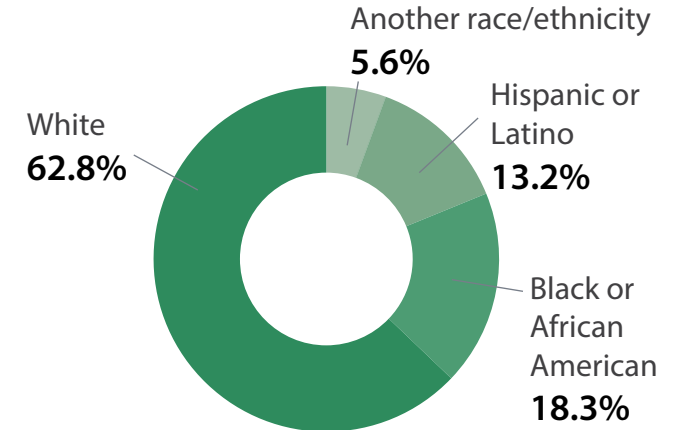
Age



Biological Sex

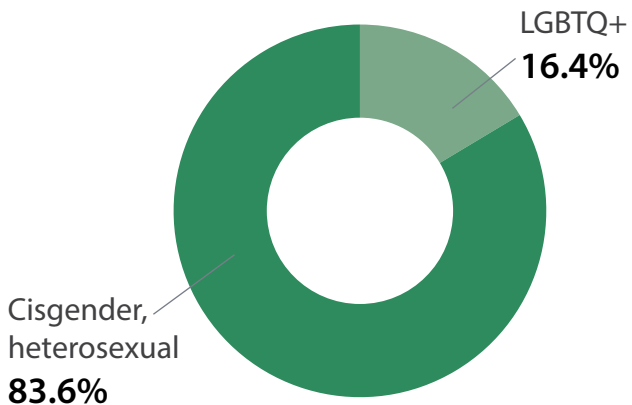


Race/Ethnicity

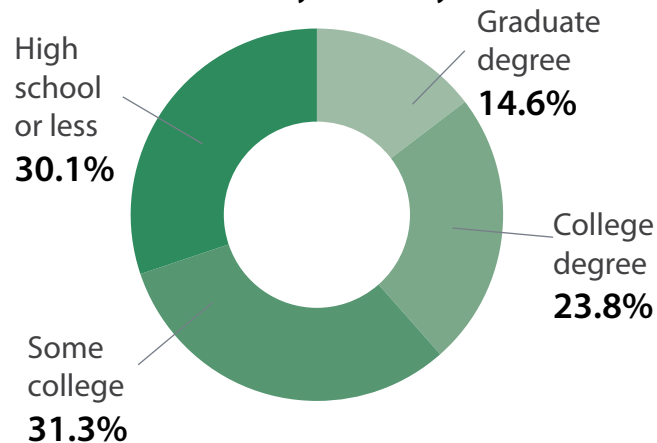


Socioeconomic Status Proxies

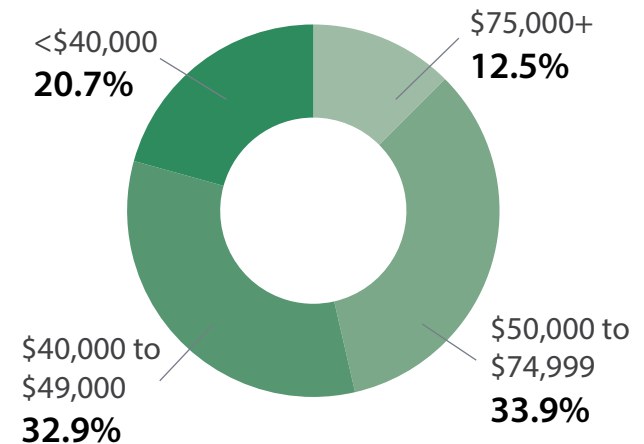
Sexual or Gender Minorities



Parental Education (12-18 years only)



Household Income (19-25 years only)

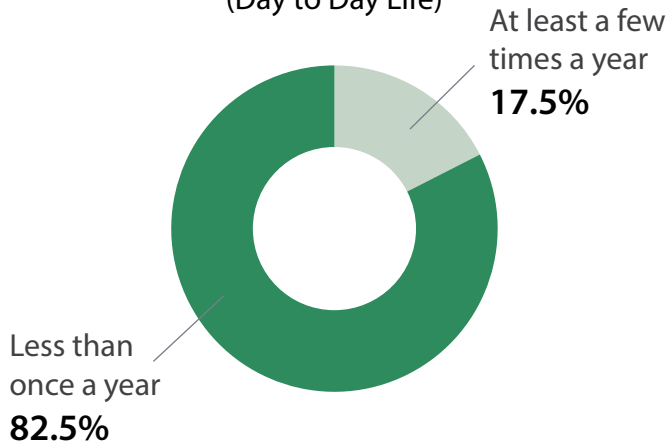


All data presented are weighted to reflect North Carolina's 1,935,361 youth and young adults aged 12-25.

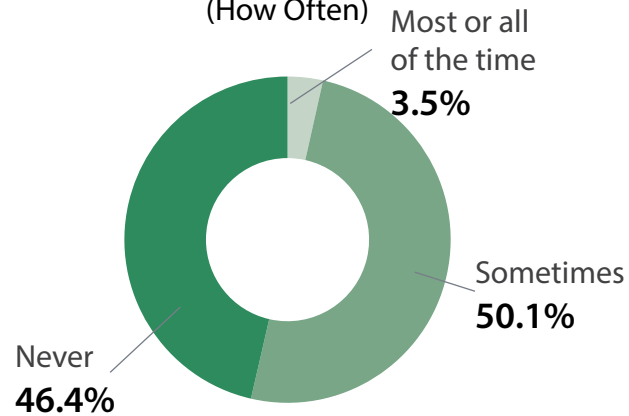
Social Determinants of Health Experienced

Experienced Over Time

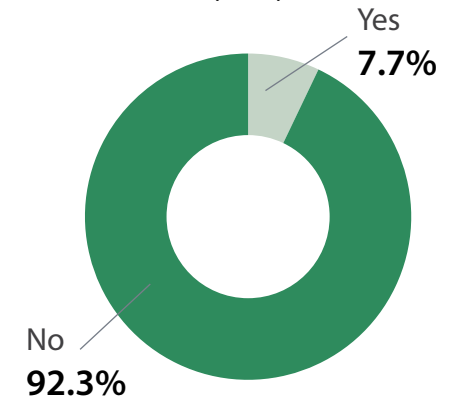
Everyday Discrimination
(Day to Day Life)



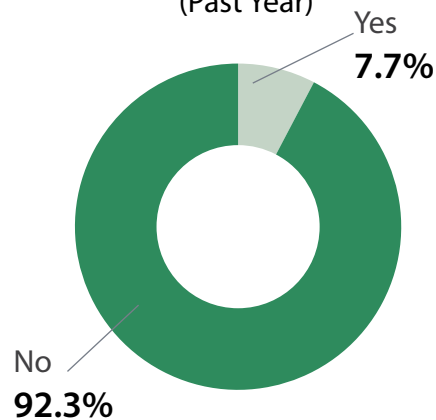
Community ACES
(How Often)



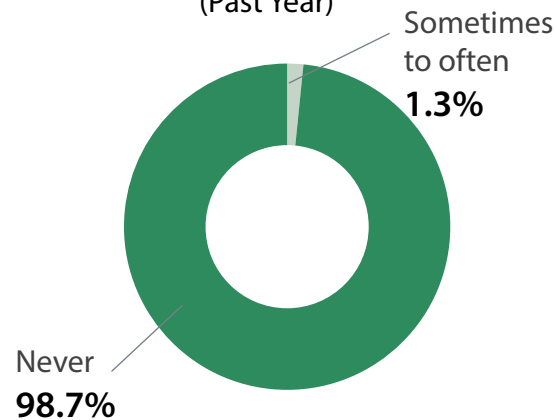
Parental Separation
(Ever)



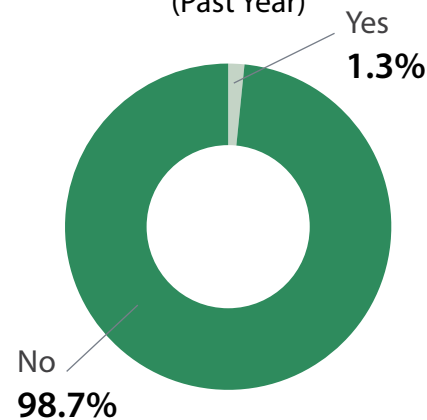
Immigration Concerns
(Past Year)



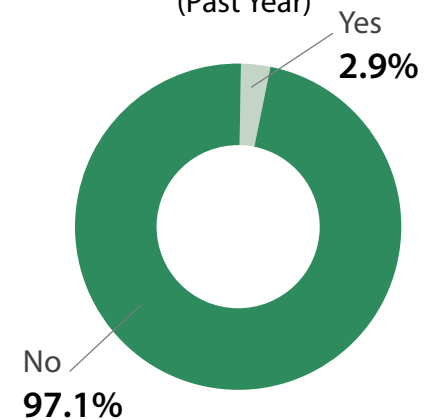
Food Insecurity
(Past Year)



Unhoused
(Past Year)



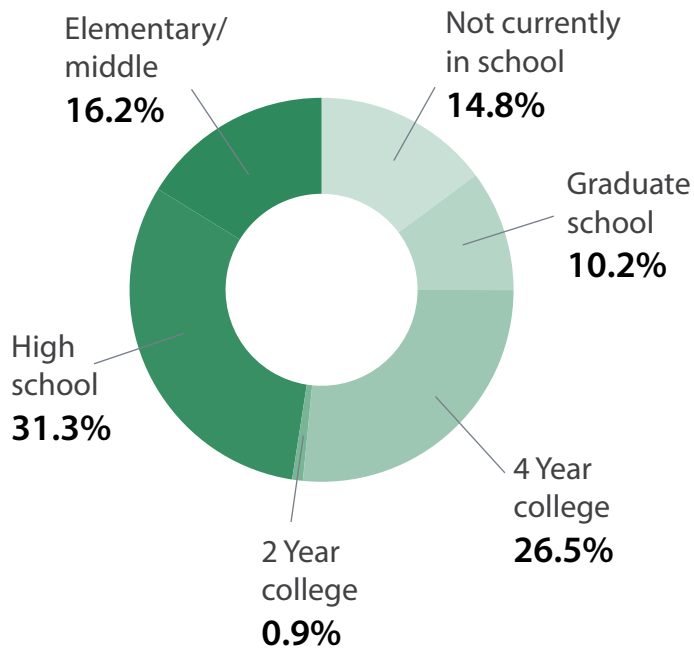
Transportation Insecurity
(Past Year)



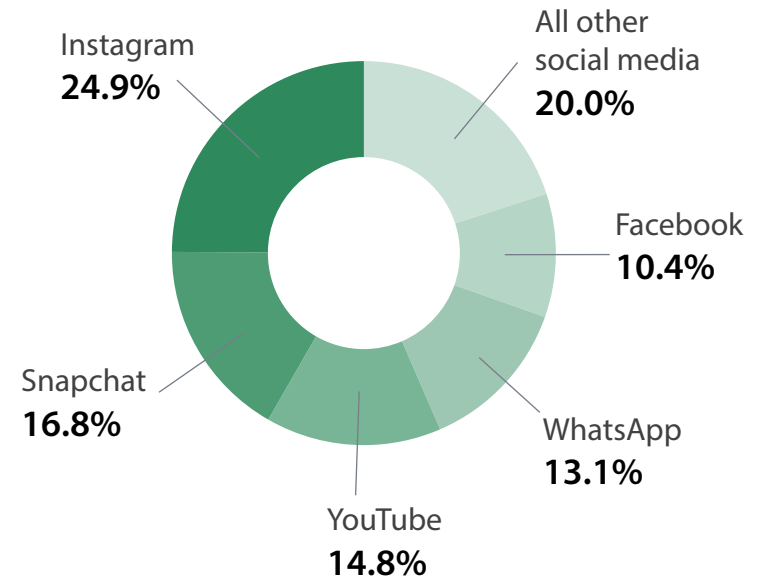
All measured social determinants of health were significantly related to substance use.

Social Context

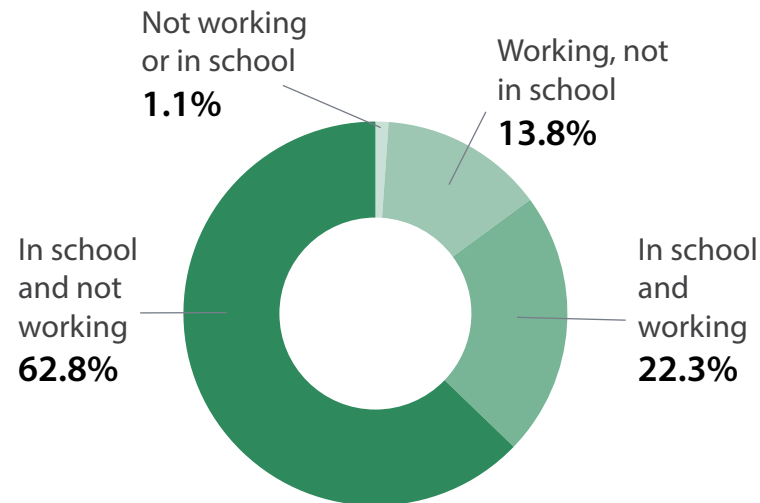
School Enrollment



Social Media Preferences



Employment Status



Most youth and young adults are engaged in school and/or work.

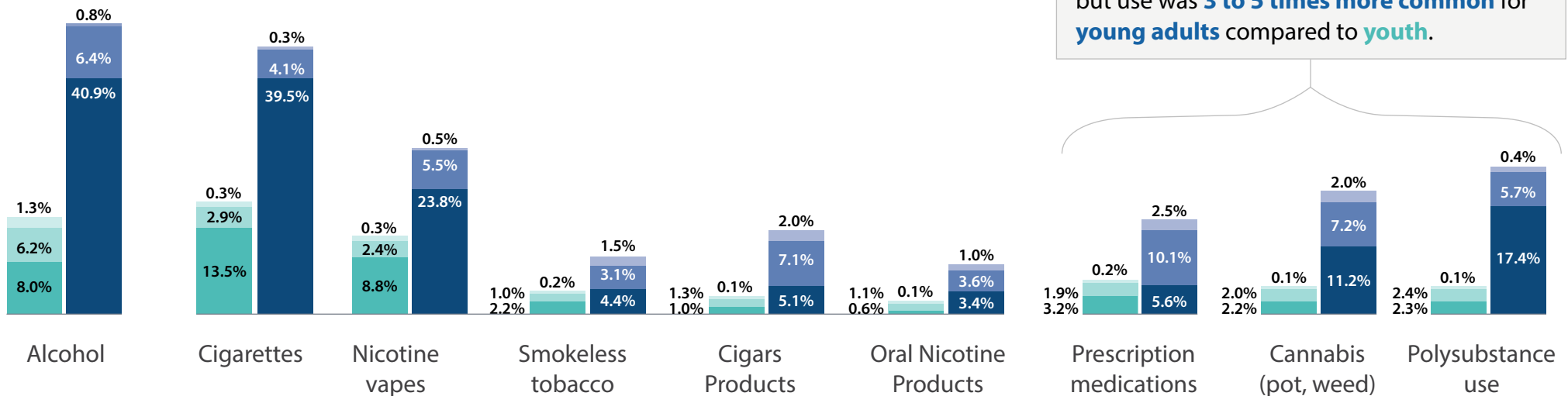
Most Recent Substance Use

Alcohol, Nicotine Products, Cannabis, Prescription Drugs, and Polysubstance Use

Past 30 Day, Past Year, and Lifetime Substance Use

Alcohol and nicotine were the most used types of substances among both **youth** and **young adults**. **Young adults** were 3 to 6 times more likely to consume alcohol and nicotine products than **youth**.

Prescription medication misuse, cannabis use, and polysubstance use were not common, but use was **3 to 5 times more common** for **young adults** compared to **youth**.



Nicotine Products

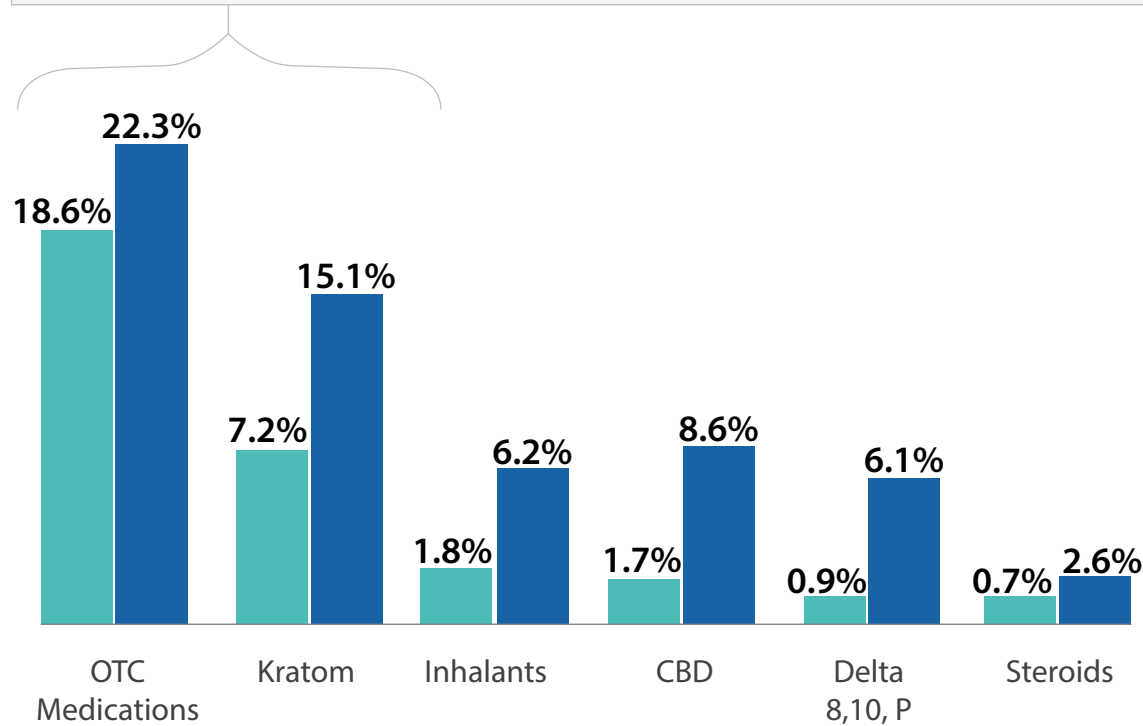
Youth 12-20 Last 30 Days Past year, but more than 30 days More than 12 months ago
Young adults 21-25 Last 30 Days Past year, but more than 30 days More than 12 months ago

Other Substance Use

OTC Medications, Kratom, Inhalants, CBD, Delta 8/10/P, Steroids, and Other Drugs

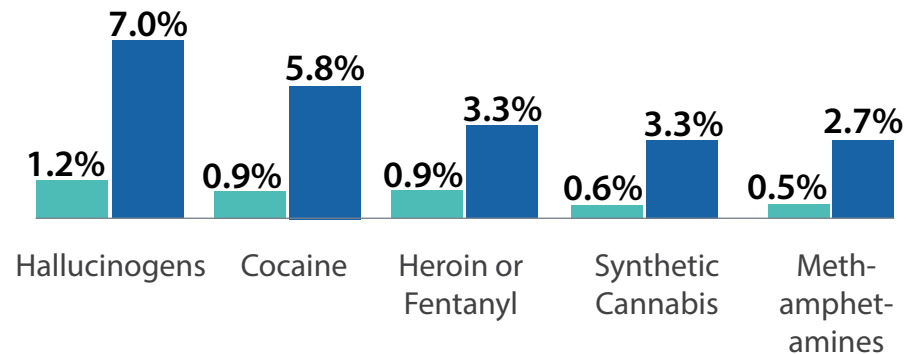
Lifetime Use of Other Substances

OTC medications and kratom were the most used legally available substances.



Legally Available

Less than 2% of youth and 10% of young adults used substances that are not available legally.

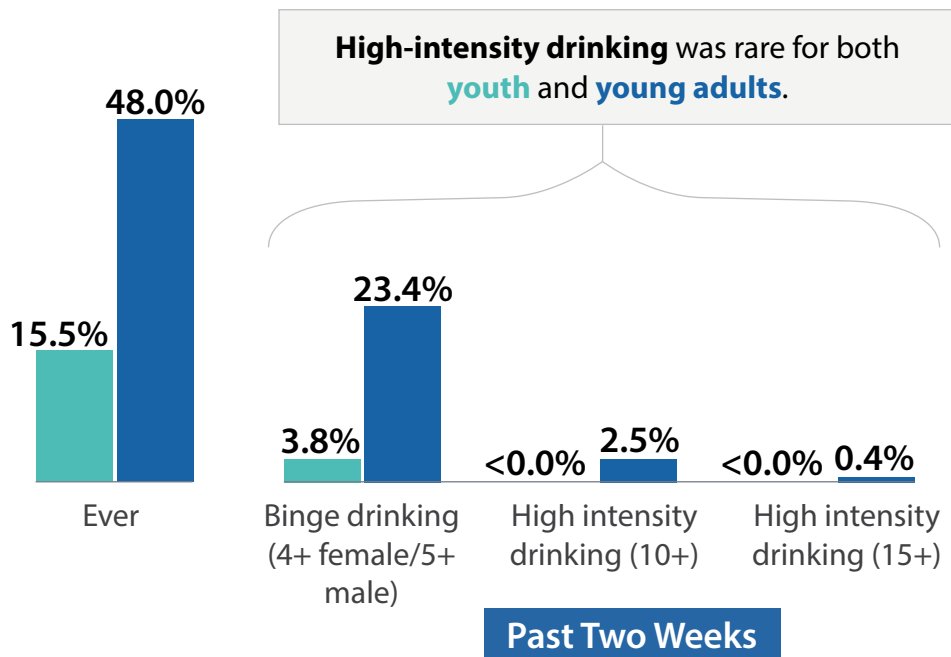


Not Available Legally

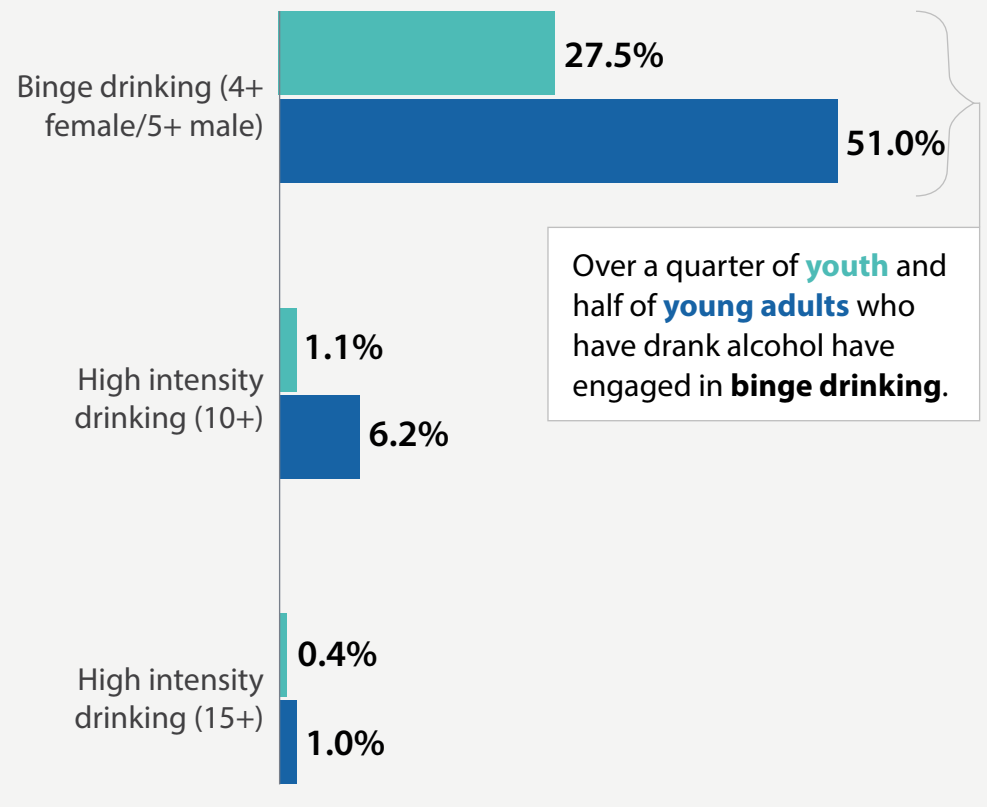
■ Youth 12-20 ■ Young adults 21-25

Alcohol Use and Binge Drinking

Alcohol Consumption (Ever) and Binge Drinking (Past 2 Weeks)



Binge and High Intensity Drinking, Past 2 Weeks
(Among Those Who Have Tried Alcohol)



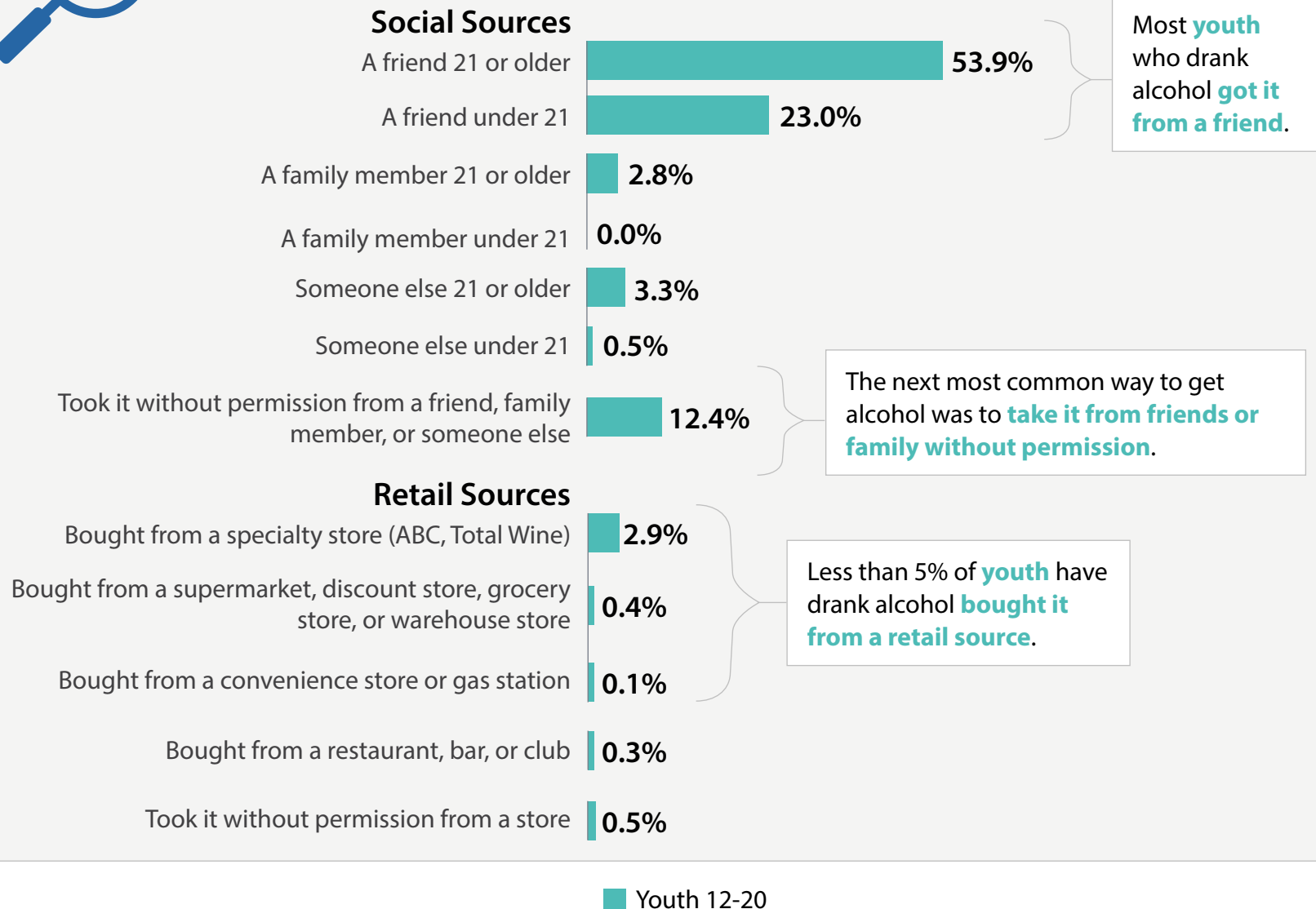
■ Youth 12-20

■ Young adults 21-25

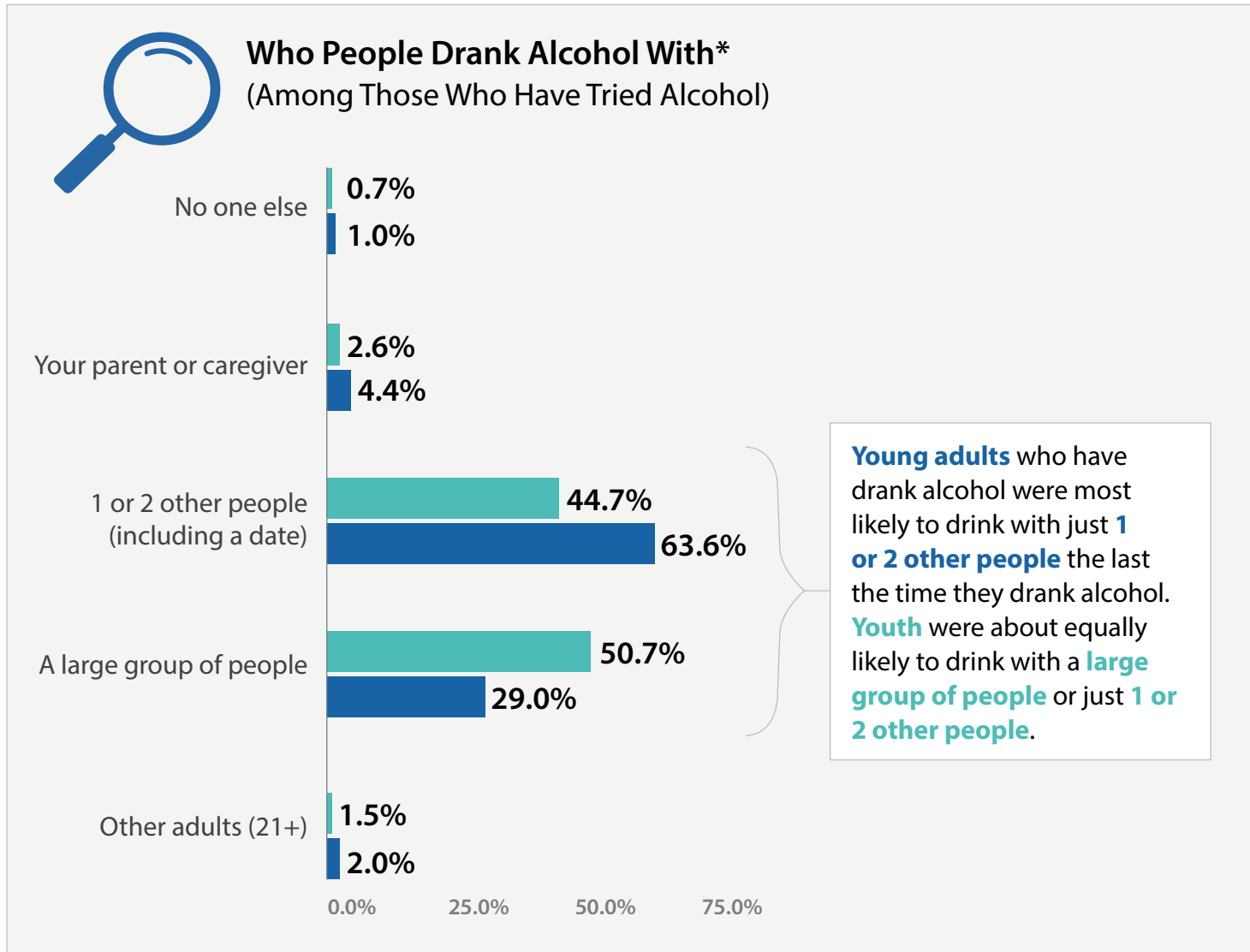
Underage Alcohol Access



How Youth Got the Alcohol They Consumed (Among Those Who Have Tried Alcohol)



Social Context of Alcohol Use

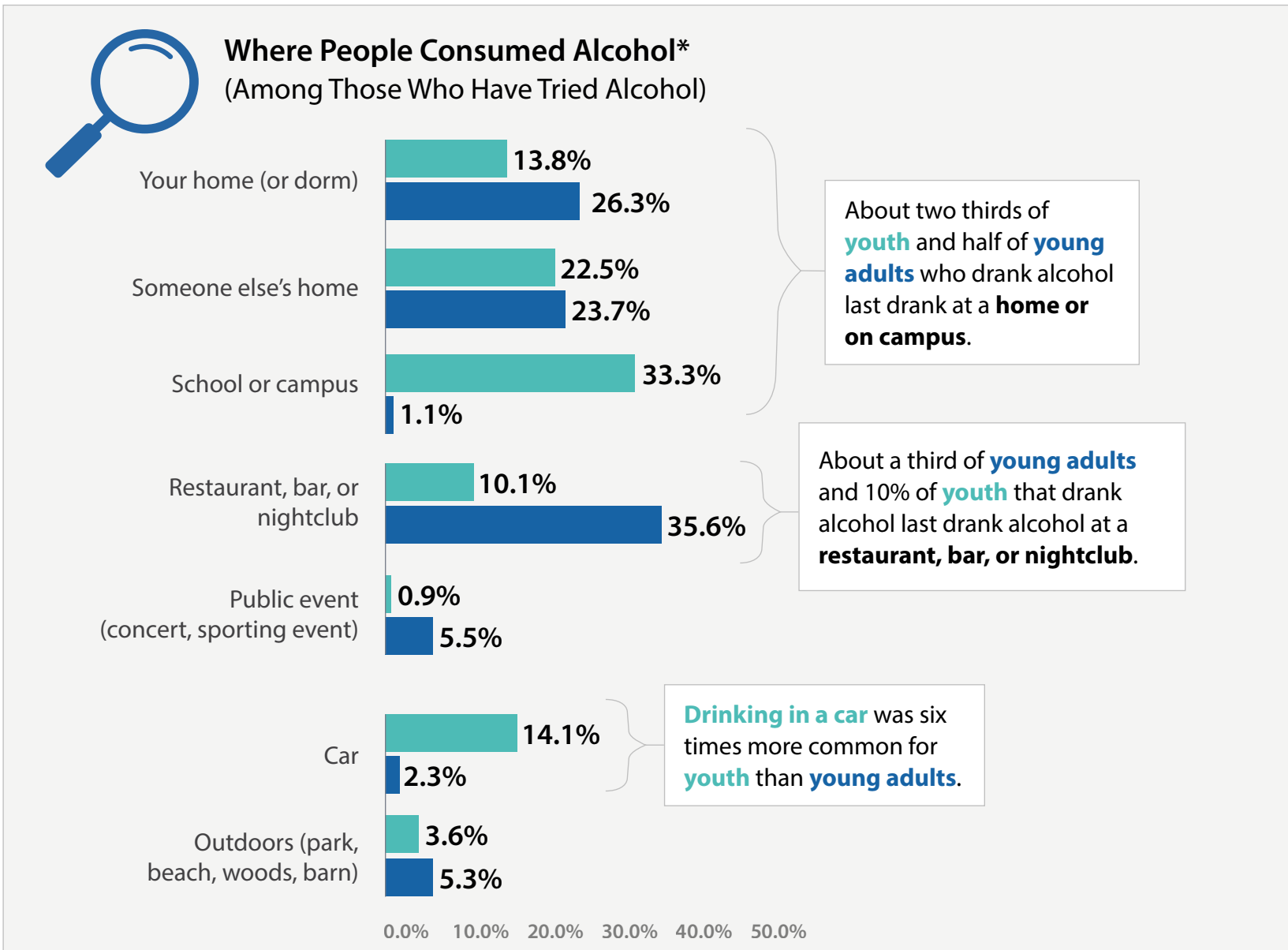


*This may add up to more than 100%.

■ Youth 12-20

■ Young adults 21-25

Physical Context of Alcohol Use



*This may add up to more than 100%.

■ Youth 12-20

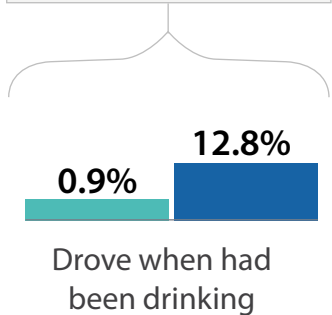
■ Young adults 21-25

Drinking and Driving

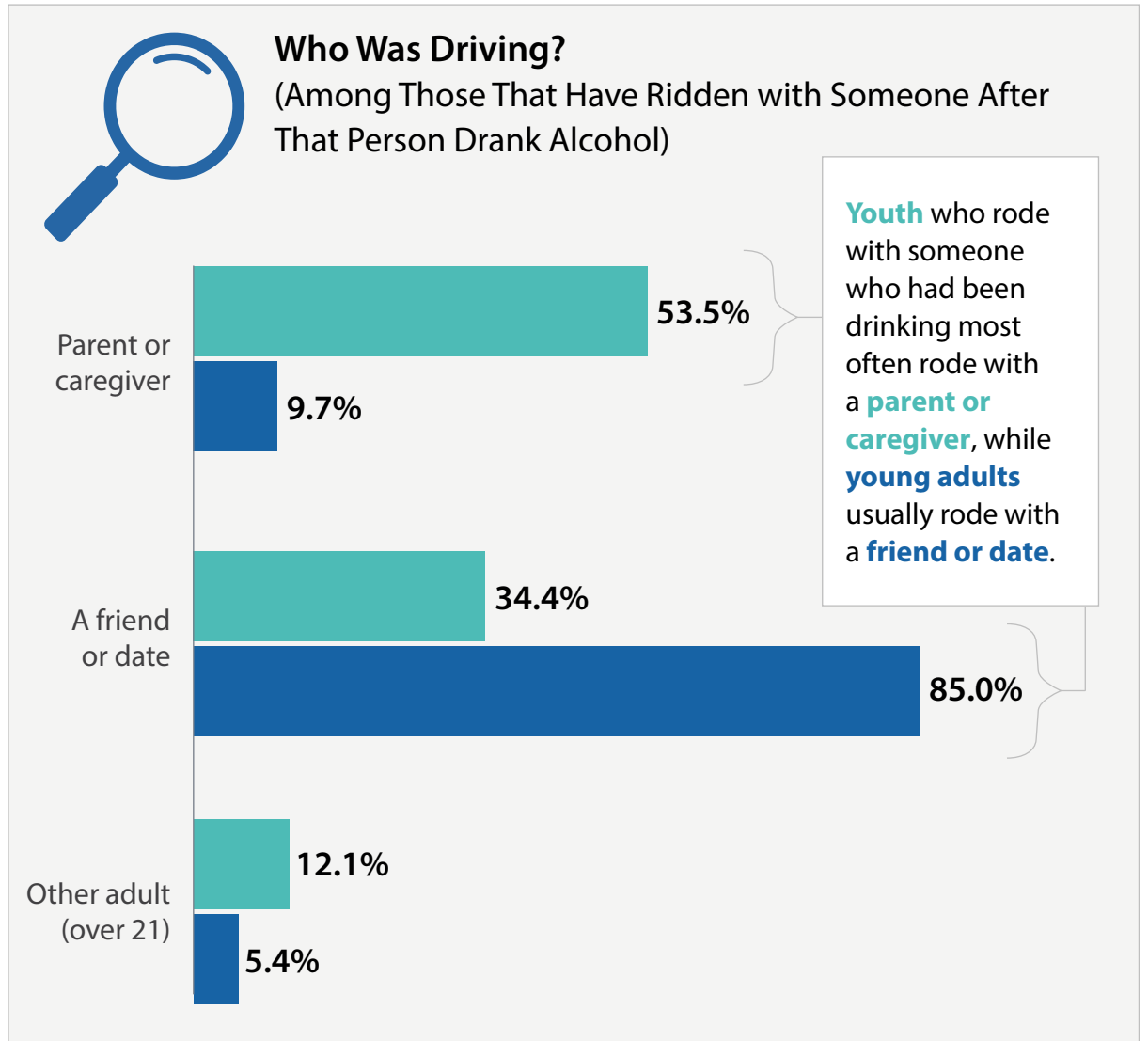
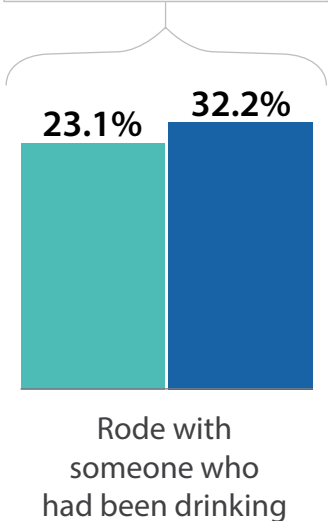
Past 30 Days

Past 30 Day Drinking and Driving

More than 10% of **young adults drove after drinking.**



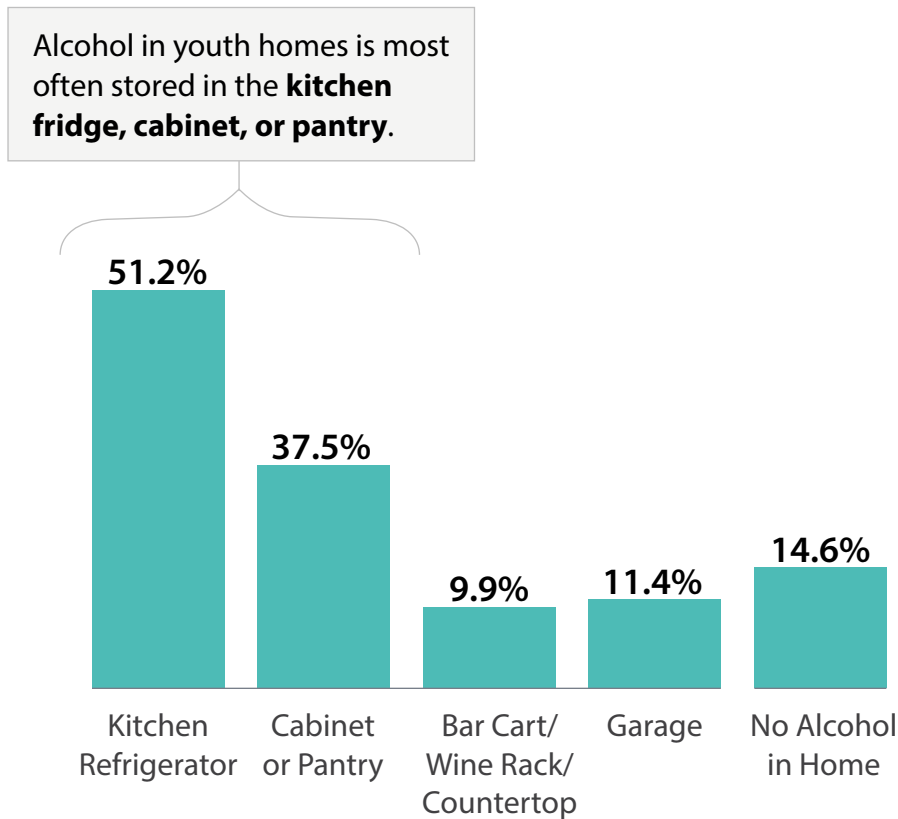
Nearly one fourth of **youth** and one third of **young adults** rode with **someone who had been drinking alcohol.**



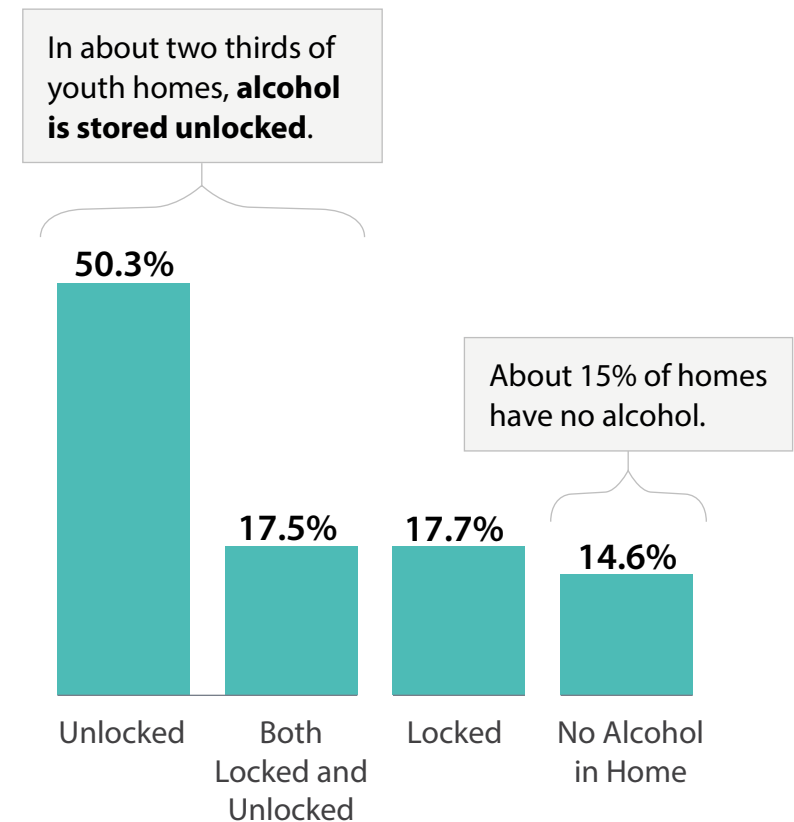
■ Youth 12-20 ■ Young adults 21-25

Alcohol Storage

Alcohol Storage in the Home*



Locked vs Unlocked Alcohol Storage in the Home

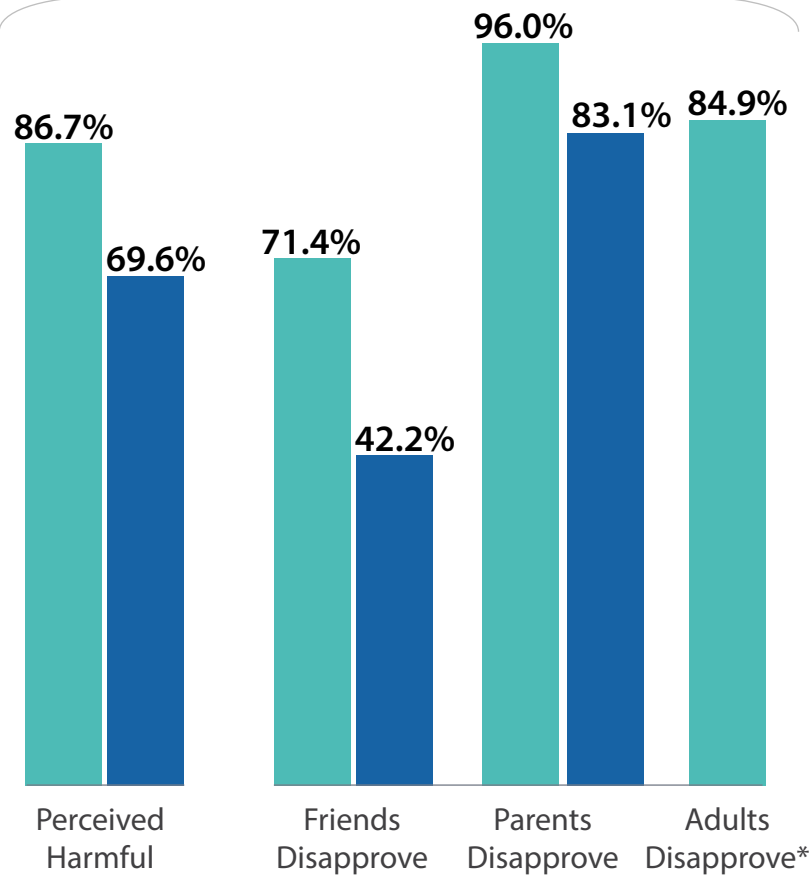


*Items only asked among youth 12-18 years old.

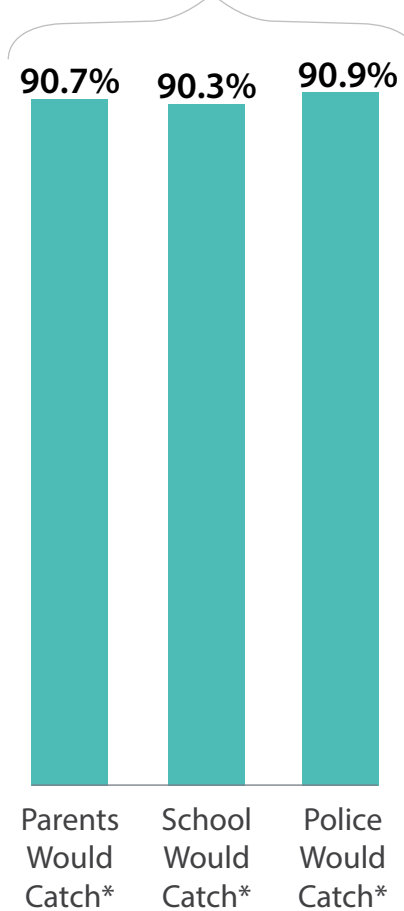
■ Youth 12-20

Alcohol-Related Risk and Protective Factors

More **youth** perceived **alcohol-related harms and disapproval** than **young adults**.



Most **youth** thought they would be caught if they drank alcohol.



63.1%

Few/No Friends Drink Alcohol

17.3%

Parents Rarely/Never Drink Alcohol

26.9%

25.2%

Less than half of **youth** thought alcohol was hard to get.

40.5%

Difficult to Get

2.9%

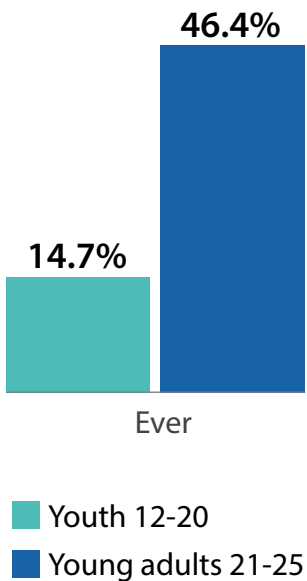
*Items only asked among youth 12-18 years old.

■ Youth 12-20

■ Young adults 21-25

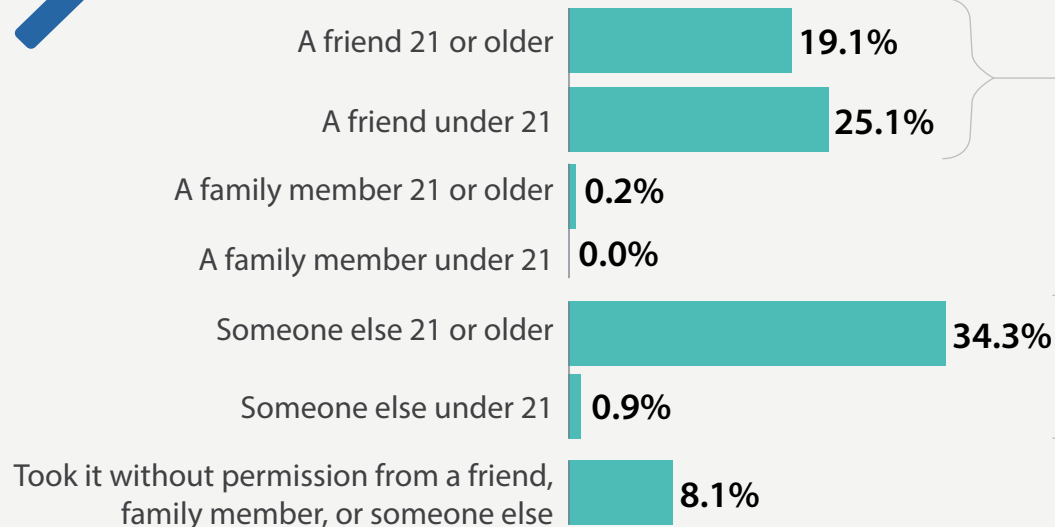
Cigarette Smoking and Underage Access

Cigarette Smoking (Ever)



How Youth Got Cigarettes They Smoked (Among Those Who Have Smoked Cigarettes)

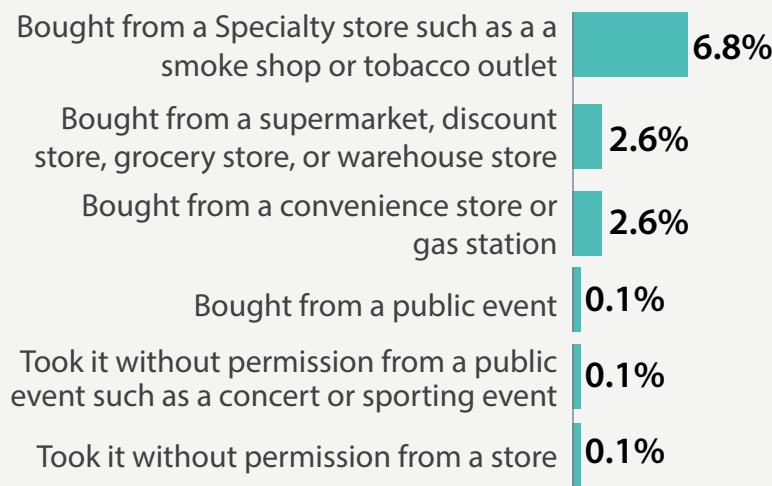
Social Sources



Almost half of **youth** who smoked cigarettes **got cigarettes from a friend**.

About a third of **youth** who smoked cigarettes got cigarettes from **someone other than a friend or family member**.

Retail Sources



About 12% of **youth** who smoked cigarettes **bought cigarettes from a retail source**. This was 3 times more often than youth bought alcohol from a retail source.

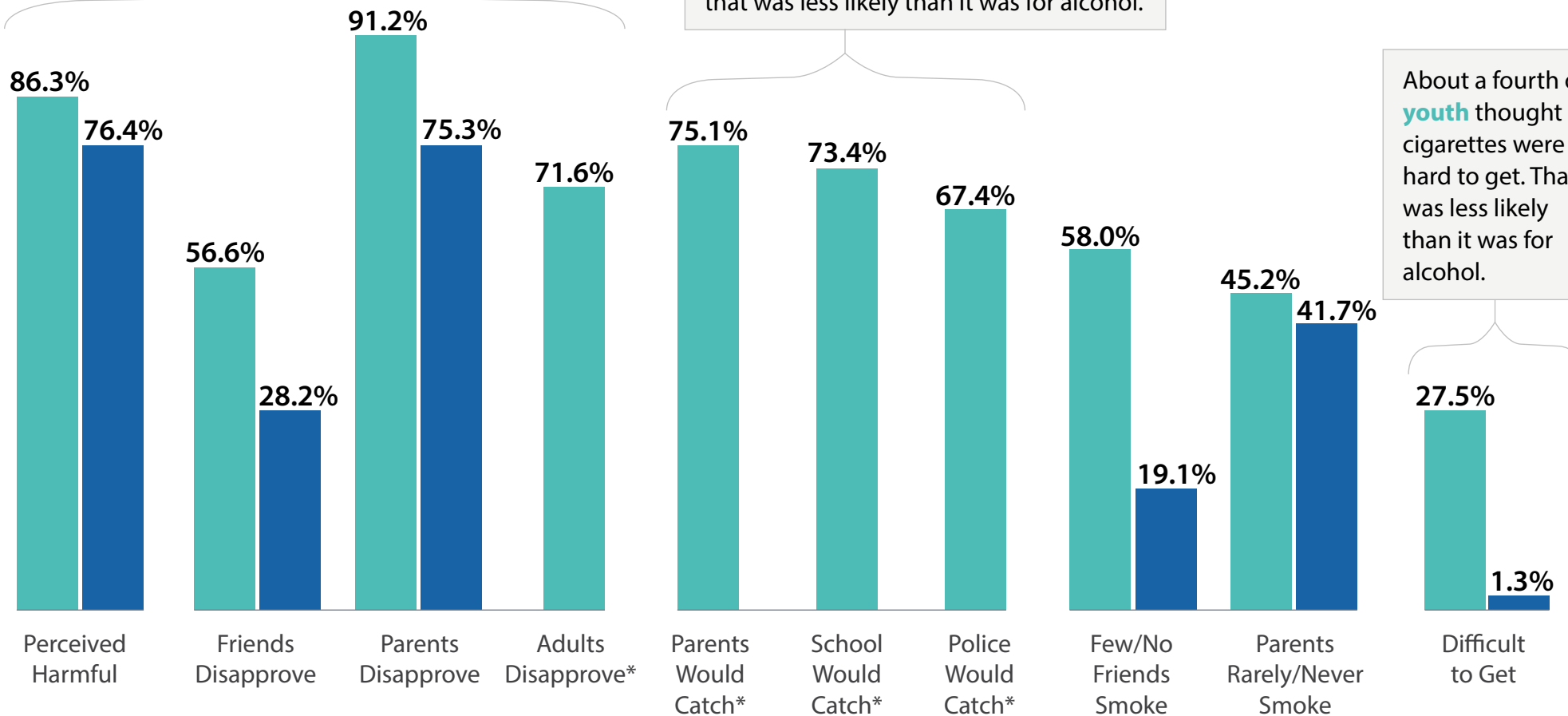
0.0% 10.0% 20.0% 30.0% 40.0% 50.0%

Cigarette Smoking-Related Risk and Protective Factors

More **youth** perceived **alcohol-related harms and disapproval** than **young adults**. But fewer **youth** perceived disapproval for smoking cigarettes compared to alcohol.

Most **youth** thought they would be **caught if they smoked cigarettes**, but that was less likely than it was for alcohol.

About a fourth of **youth** thought cigarettes were hard to get. That was less likely than it was for alcohol.



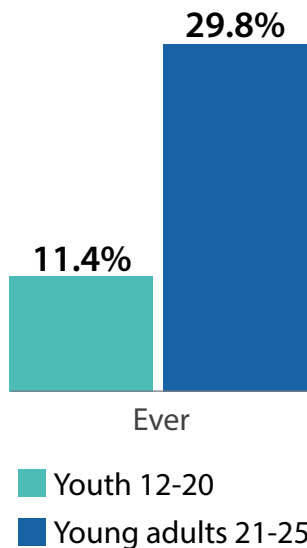
*Items only asked among youth 12-18 years old.

■ Youth 12-20

■ Young adults 21-25

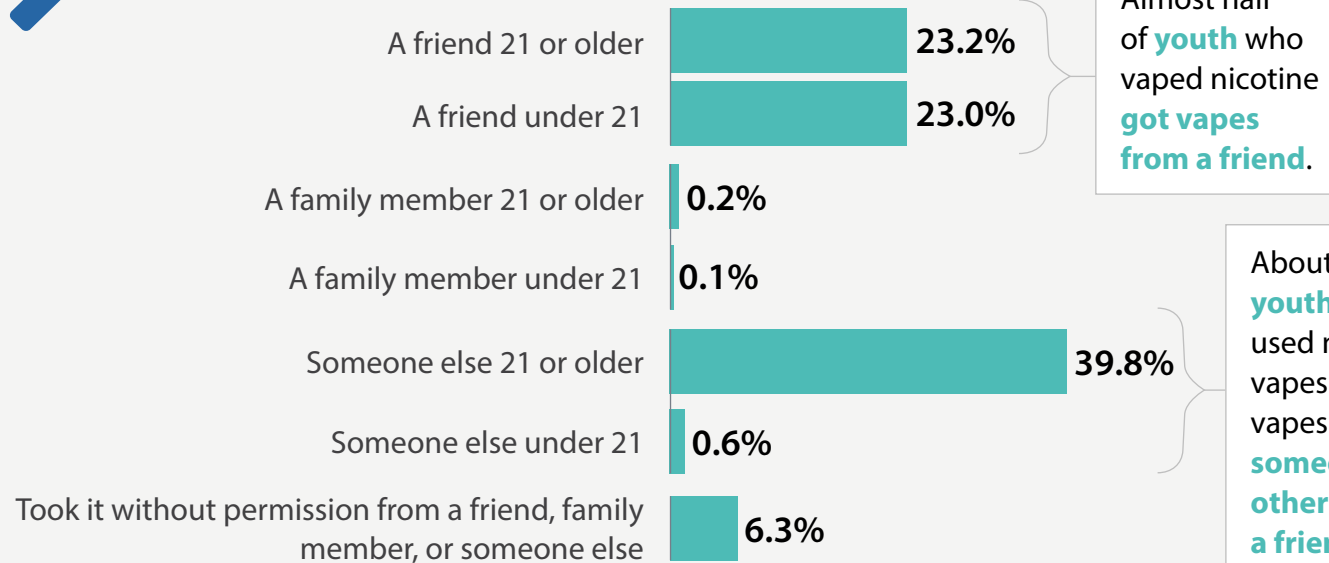
Nicotine Vape Use and Underage Access

Nicotine Vape Use (Ever)



How Youth got Nicotine Vapes they Used (Among Those Who Have Vaped Nicotine)

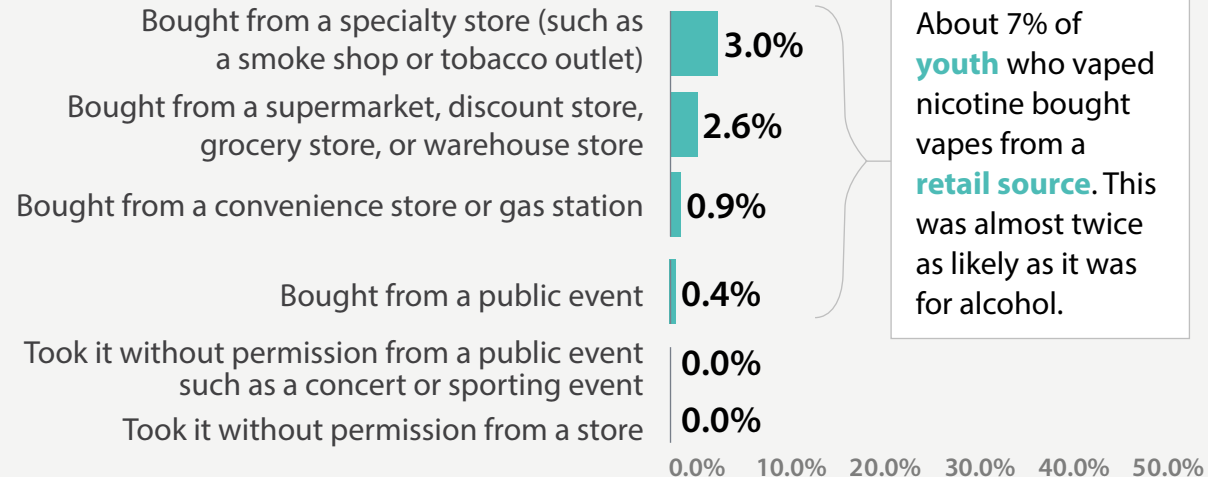
Social Sources



Almost half of **youth** who vaped nicotine **got vapes from a friend.**

About 40% of **youth** who used nicotine vapes got vapes from **someone other than a friend or family member.**

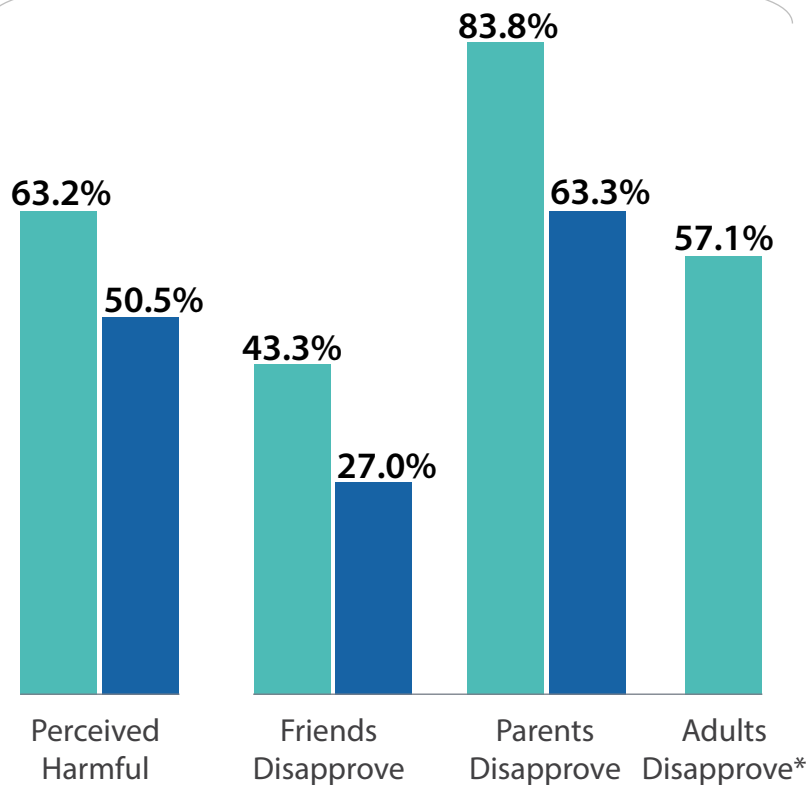
Retail Sources



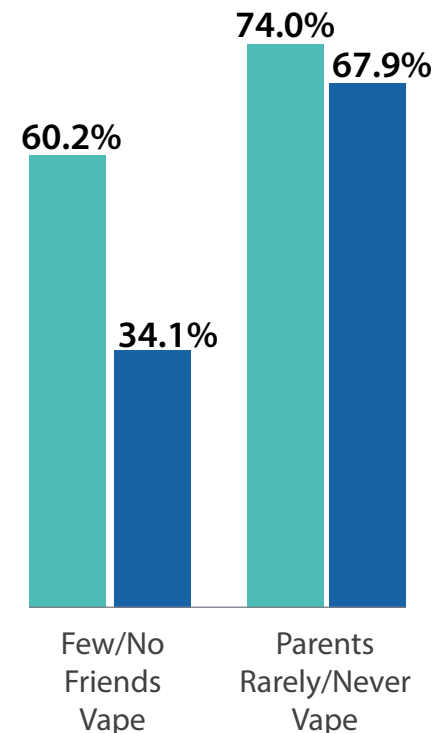
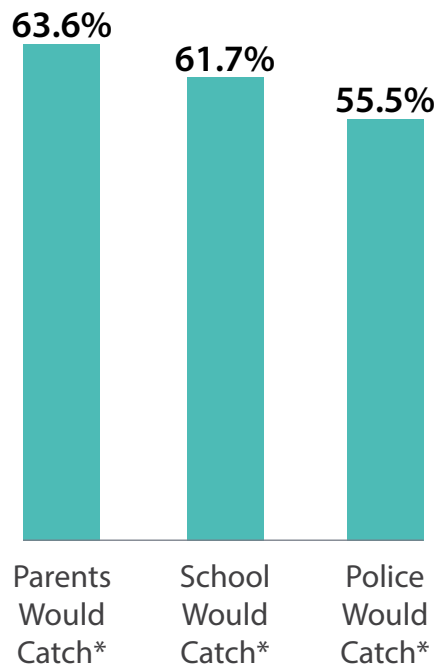
About 7% of **youth** who vaped nicotine bought vapes from a **retail source.** This was almost twice as likely as it was for alcohol.

Nicotine Vape-Related Risk & Protective Factors

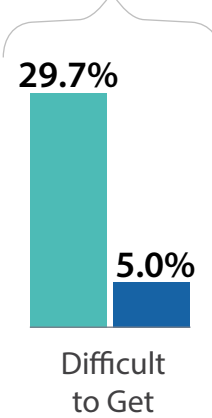
More **youth** perceived **nicotine vape-related harms and disapproval** than **young adults**. But fewer **youth** perceived harms and disapproval for nicotine vapes compared to alcohol or cigarettes.



Most **youth** thought they would be caught if they **vaped nicotine**, but that was less likely than it was for alcohol or cigarettes.



About a third of **youth** thought nicotine vapes were hard to get. That was less likely than it was for alcohol.



*Items only asked among youth 12-18 years old.

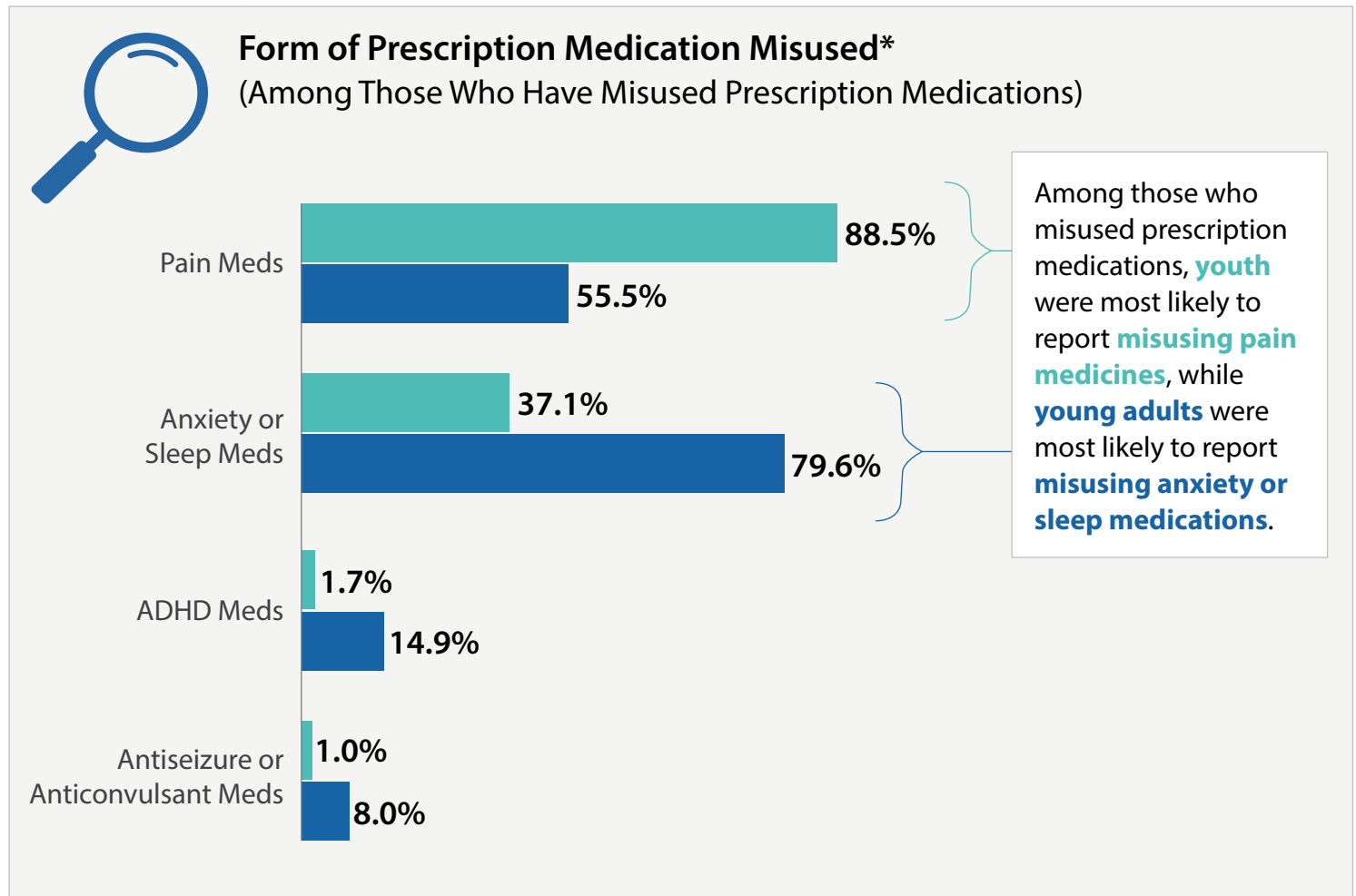
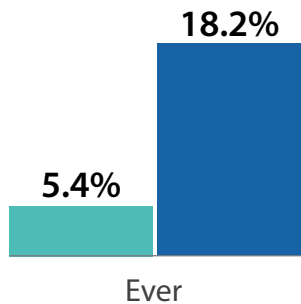
■ Youth 12-20

■ Young adults 21-25

Prescription Medication Misuse

Use Without a Doctor's Prescription or Used Differently Than How a Doctor Told to Use

Prescription Medication Misuse (Ever)



*Respondents could select more than one type of prescription medication.

■ Youth 12-20

■ Young adults 21-25

Access to Prescription Medications



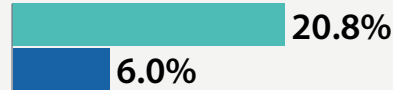
How People Got the Prescription Medications They Misused (Among Those Who Have Misused Prescription Medications)

Social Sources

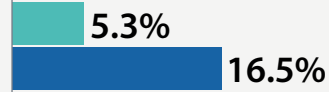
I got them from my own prescription (but did not use in the way the doctor directed)



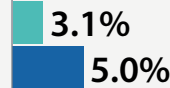
A family member



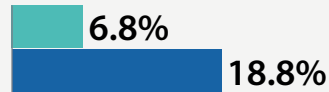
A friend



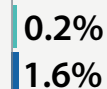
Someone else



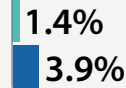
Took them from my home



Took them from another family member's home



Took them from someone else's home



Retail Source

Took them from a doctor's office, clinic, hospital, or pharmacy



Most people who misused prescription medications **got them from their own prescription.** This was slightly more likely for **youth.**

Slightly over a fourth of people who misused prescription medications got them someone they knew. Most **youth** said this was a **family member.** Most **young adults** said this was a **friend.**

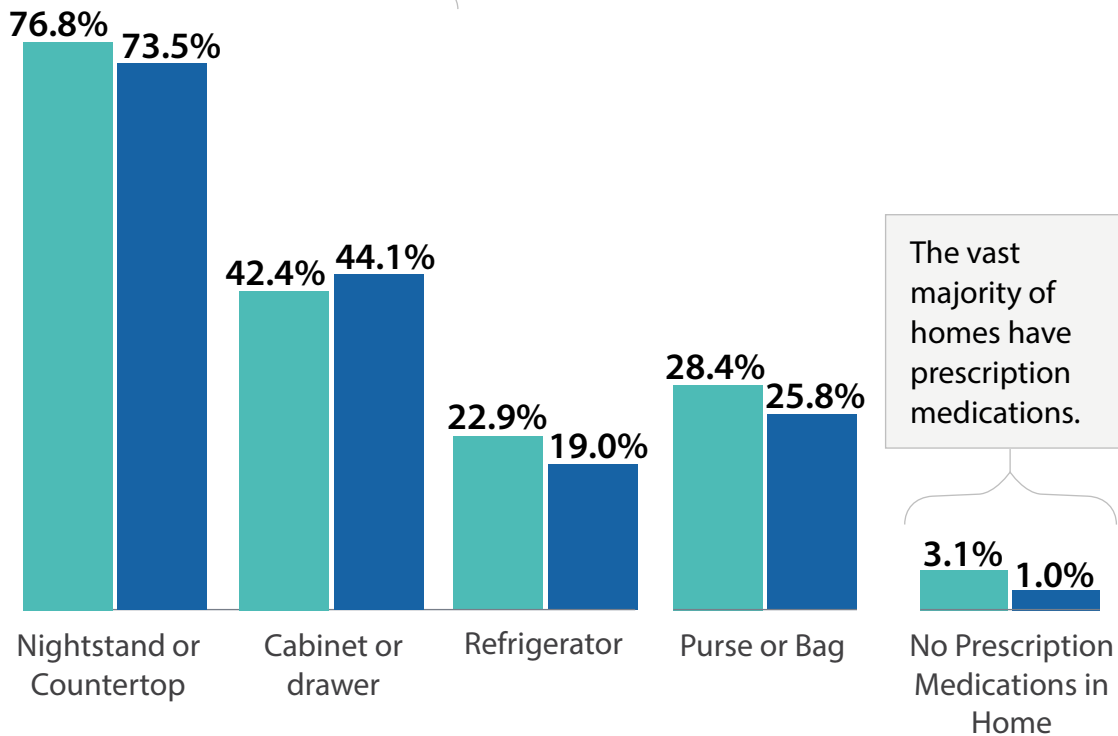
Almost 10% of **youth** and a fourth of **young adults** said they **took the prescription medications they misused from a home,** most often their own home.



Prescription Medication Storage

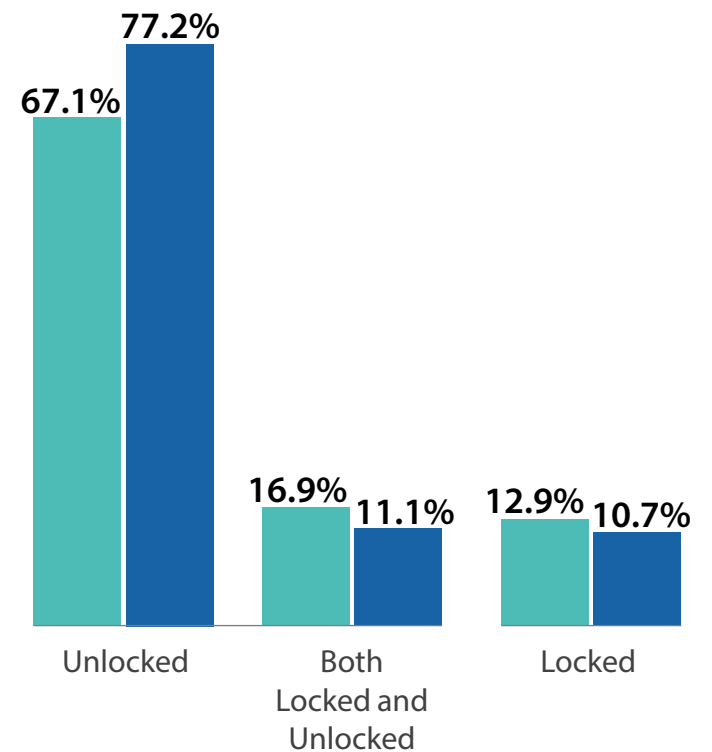
Prescription Medication Storage Location in the Home*

Prescription medications are stored in multiple places in the home, most often a **nightstand or countertop**, or a **cabinet or drawer**.



Locked vs Unlocked Prescription Medication Storage

Most homes have prescription medications stored **unlocked**.



*Prescription medication storage location numbers may add up to more than 100%

■ Youth 12-20

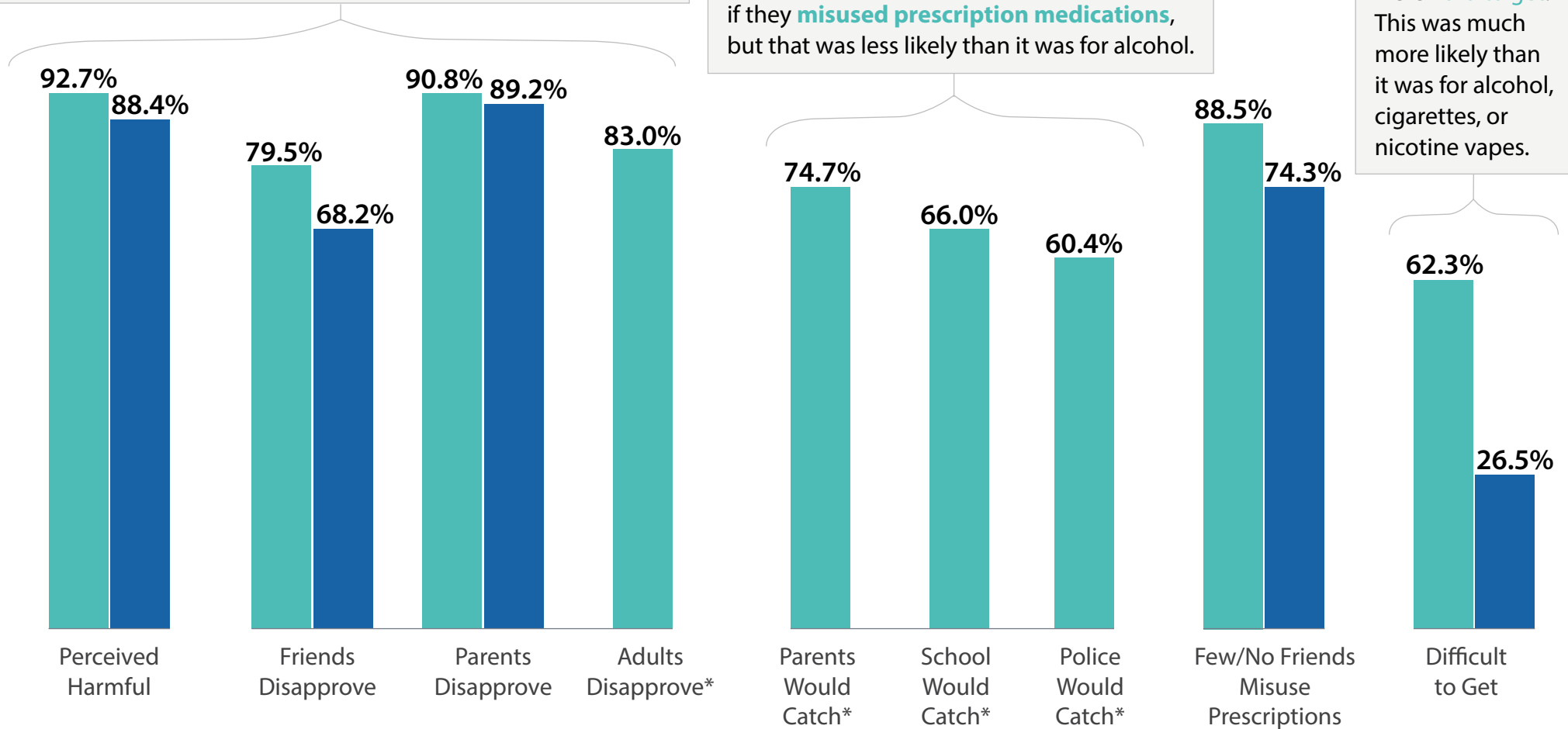
■ Young adults 21-25

Prescription Medication Misuse-Related Risk and Protective Factors

More **youth** perceived **prescription medication misuse-related harms and disapproval** than **young adults**, but this difference was much less pronounced than it was for alcohol, cigarettes, or nicotine vapes.

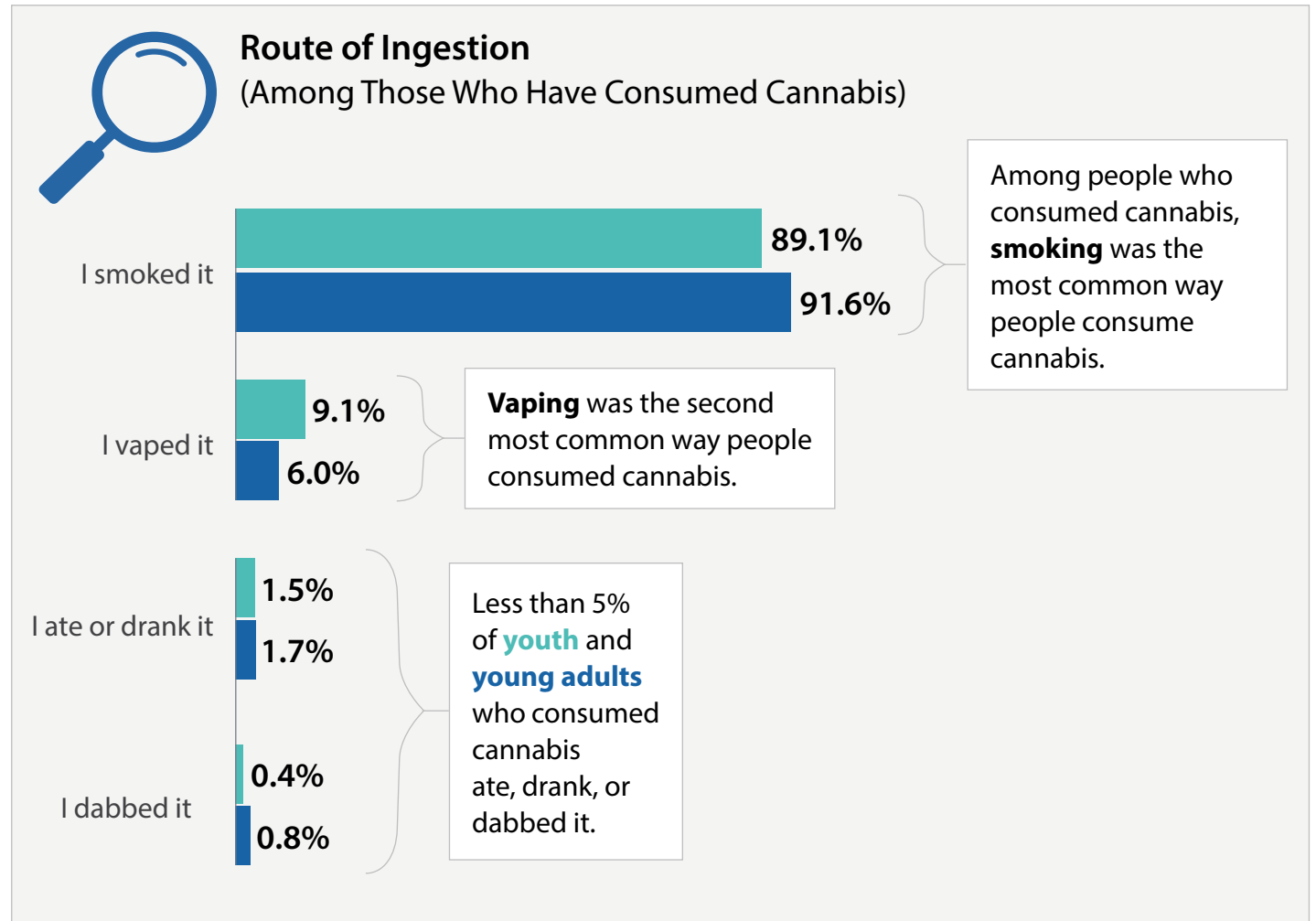
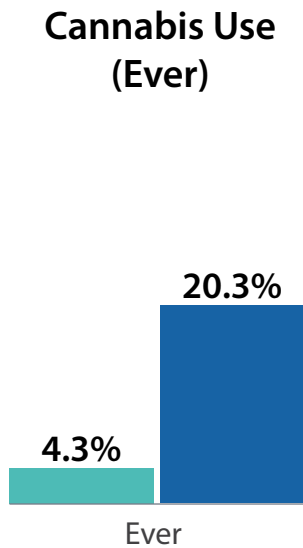
Most **youth** thought they would be caught if they **misused prescription medications**, but that was less likely than it was for alcohol.

Almost two thirds of **youth** thought prescription medications were **hard to get**. This was much more likely than it was for alcohol, cigarettes, or nicotine vapes.



*Items only asked among youth 12-18 years old. ■ Youth 12-20 ■ Young adults 21-25

Cannabis (Weed, Pot)

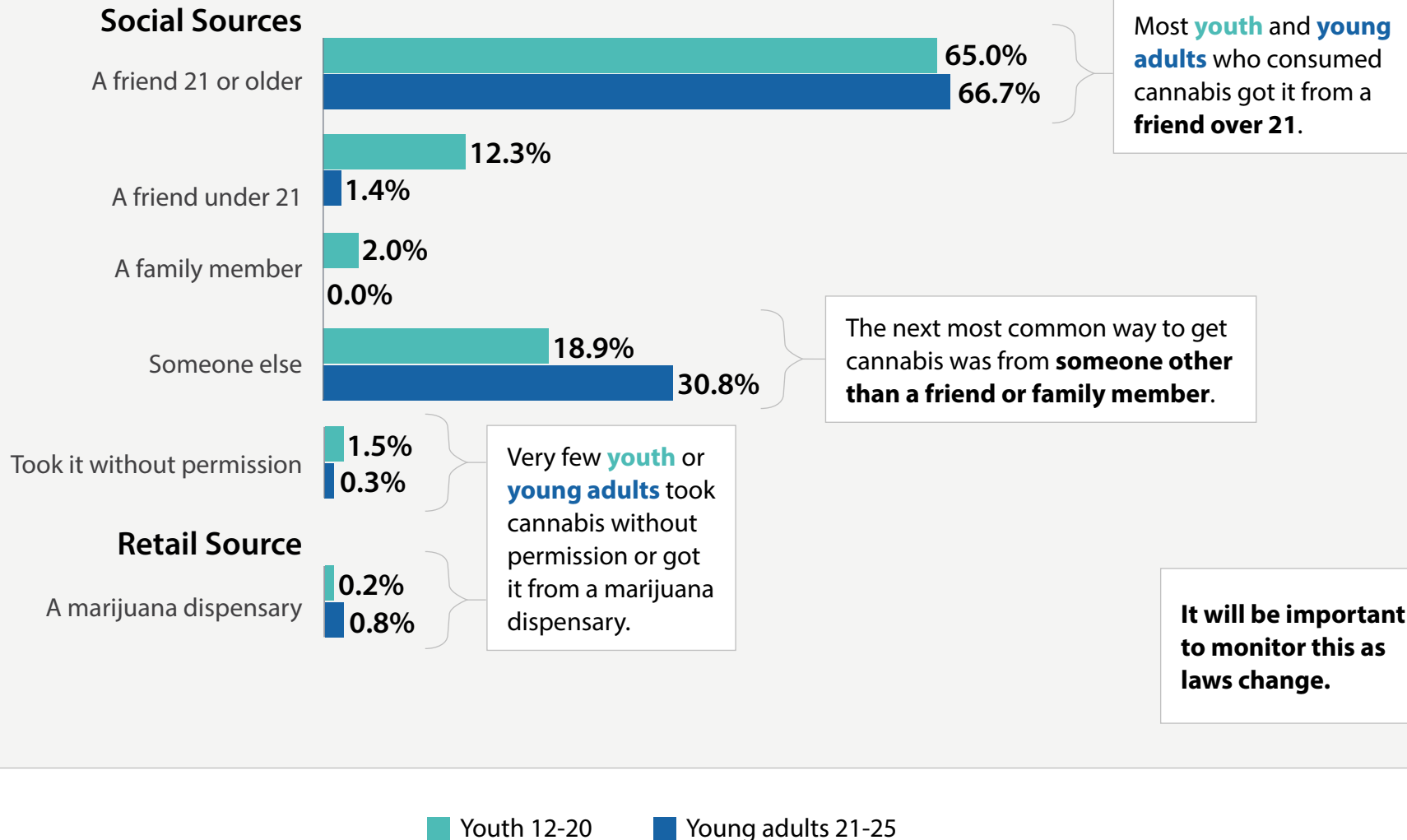


■ Youth 12-20 ■ Young adults 21-25

Cannabis Underage Access



How Youth Got the Cannabis They Used (Among Those Who Have Consumed Cannabis)

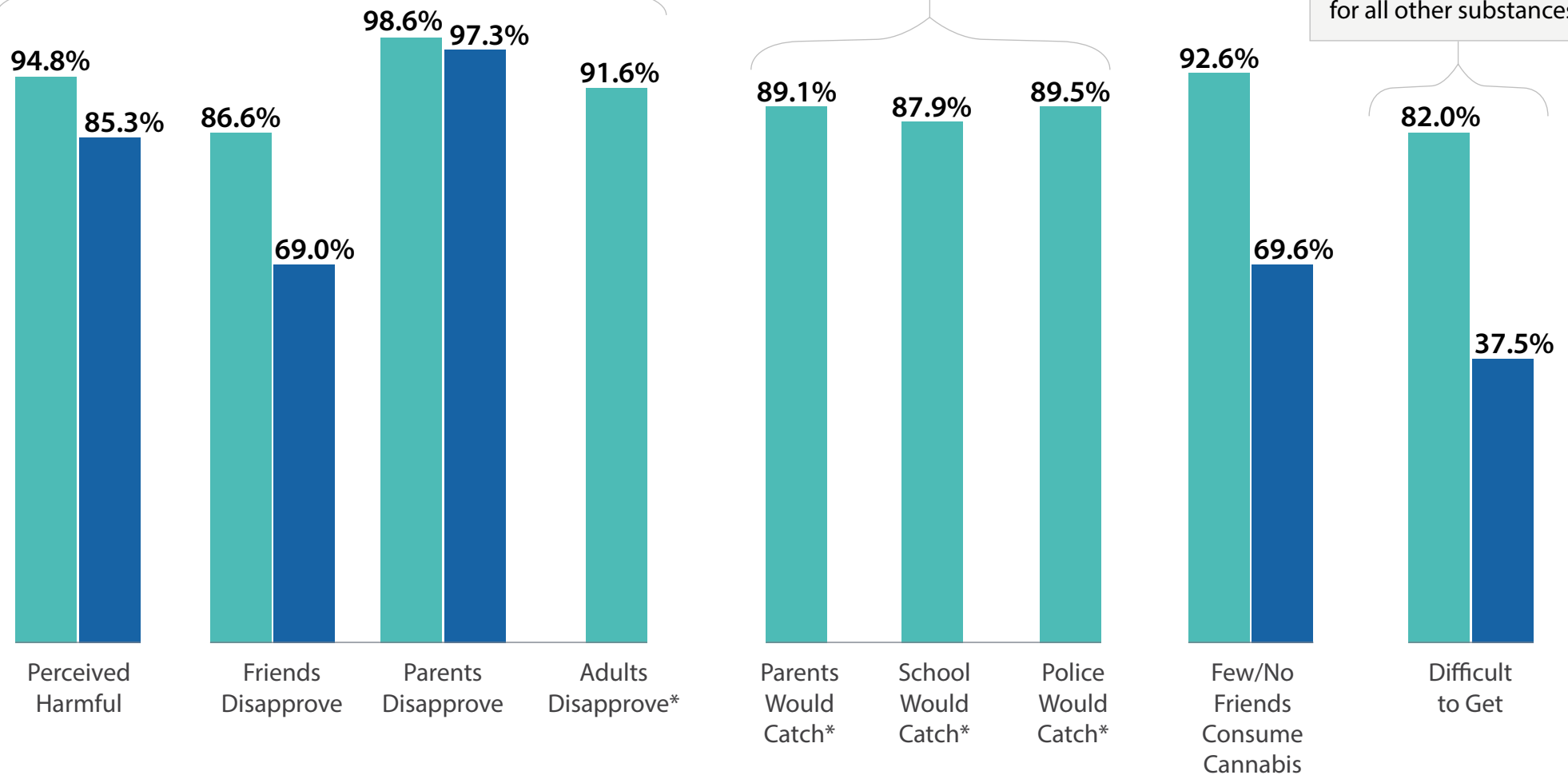


Cannabis-Related Risk and Protective Factors

More **youth** perceived **cannabis-related harms and disapproval** than **young adults**, but this difference was much less pronounced than it was for alcohol, cigarettes, or nicotine vapes.

Most **youth** thought they would be caught if they used cannabis.

More than 80% of **youth** thought **cannabis was hard to get**. This was much more likely than it was for all other substances.



*Items only asked among youth 12-18 years old.

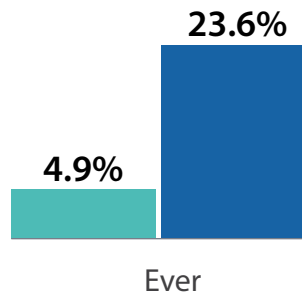
■ Youth 12-20

■ Young adults 21-25

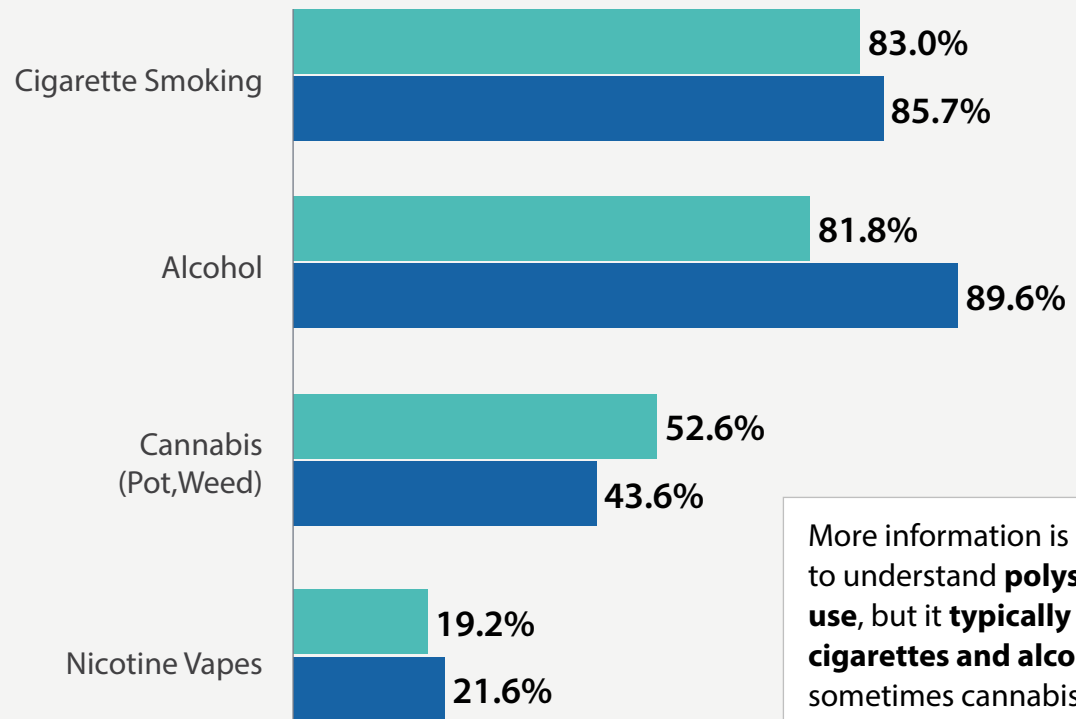
Polysubstance Use

Used Multiple Substances at the Same Time, Such That the Effects Overlapped

Consumed 2+ Substances at the Same Time



Substances Consumed by at Least 20% of People at Their Most Recent Polysubstance Use Event (Among Those Who Have Used Two+ Substances at the Same Time)



More information is needed to understand **polysubstance use**, but it **typically involves cigarettes and alcohol**, and sometimes cannabis and nicotine vapes.

■ Youth 12-20 ■ Young adults 21-25

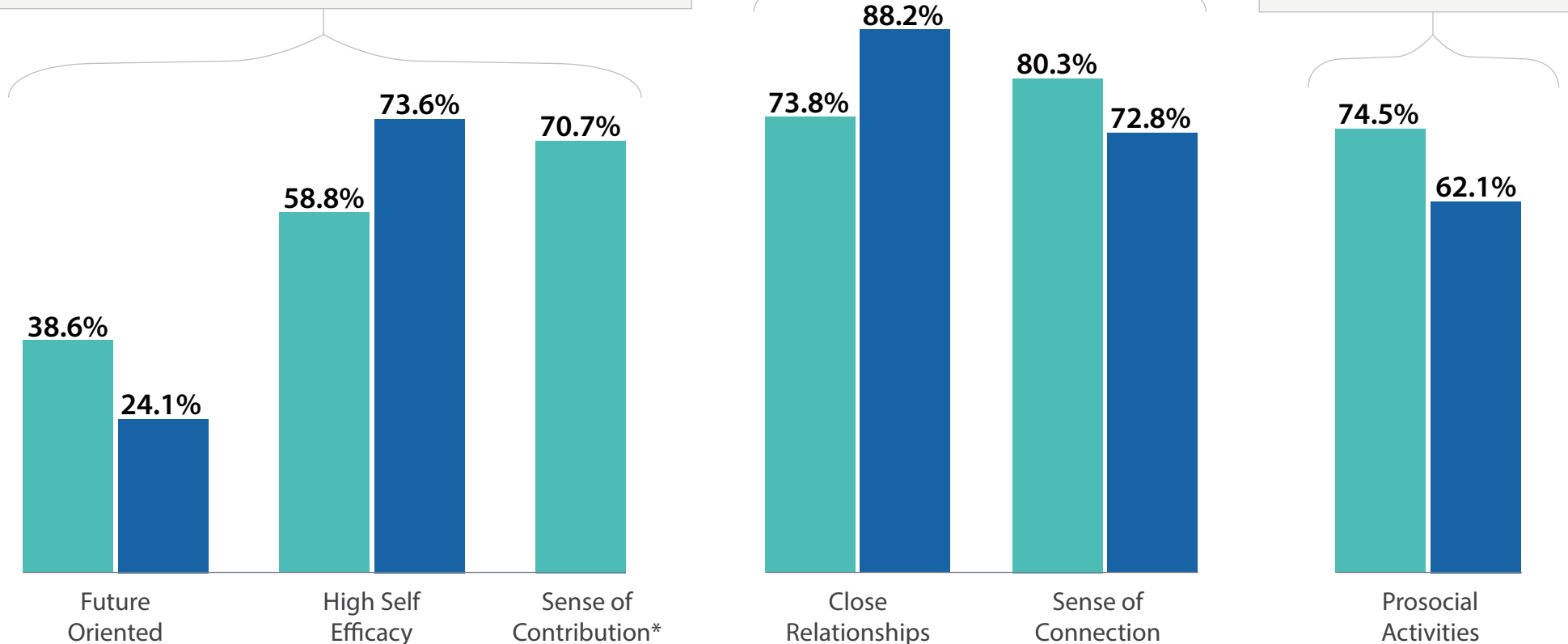
Risk and Protective Factors

Not Substance Specific

Most **youth** thought they could make a difference and that they could solve the challenges that come up in life. They were less likely to feel hopeful about their future. **Young adults** were even less likely to be hopeful for their future, but were more likely to believe they could solve the challenges that came up in life.

Most **youth** and **young adults** felt they had close relationships with others and that they were connected to important others in their life.

Youth were more likely than **young adults** to report being involved in organized activities, sports, or clubs.



*Items only asked among youth 12-18 years old.

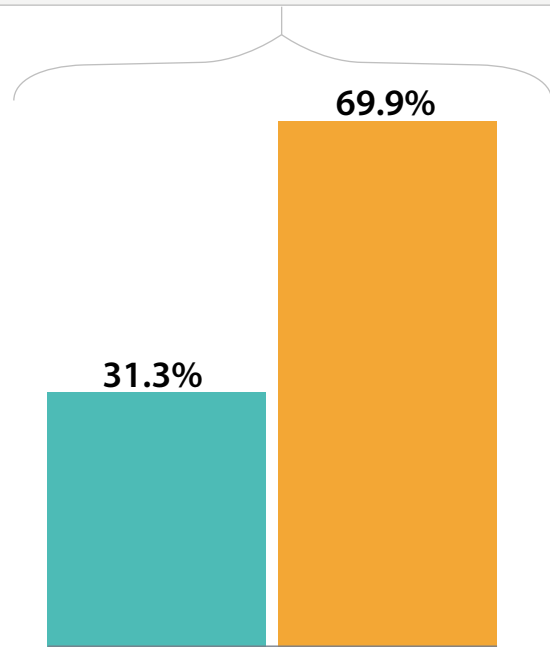
■ Youth 12-20

■ Young adults 21-25

Harm Reduction and Recovery

Knowledge of Harm Reduction

The Good Samaritan Law helps people seek help in emergencies, but only if they are aware of it. Only about a third of **youth** were aware of the Good Samaritan Law, compared to about two thirds of **young adults**.

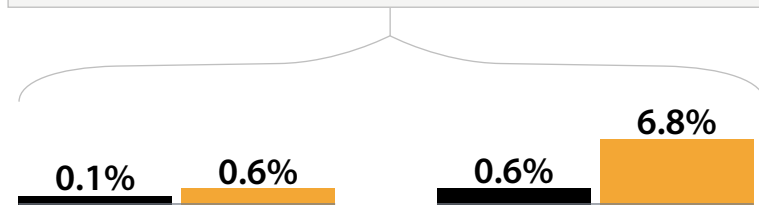


Good Samaritan Law

■ Youth 12-20 ■ Young adults 21-25

In Recovery (19-25 year olds)

A small but notable proportion of **young adults** report being in recovery.



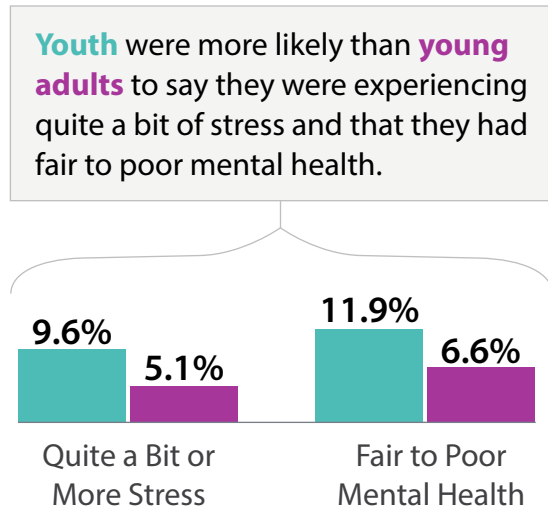
Recovery for Alcohol

Recovery for Other Substances

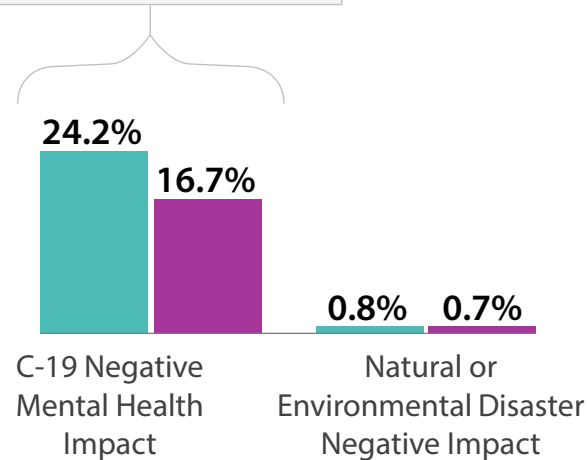
■ Youth 19-20 ■ Young adults 21-25

Mental Health and Stress

Perceived Stress and Mental Health

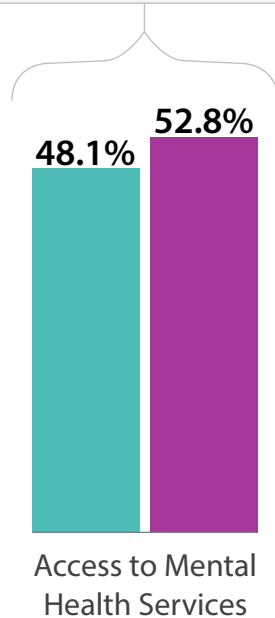


About a fourth of youth and almost a fifth of young adults said they had experienced negative mental health impacts from the Covid-19 pandemic.



Access to Services

Only about half of youth and young adults access to mental health treatment.



■ Youth 12-20 ■ Young adults 21-25

Appendix A.

Below are the 2023 NCYYAPS survey measures and details on how the responses were operationalized for this report.

Construct	Survey question(s)	Survey response options	Recorded responses a
Demographics: Age	What is your current age?	<i>[Open Response]</i>	12-14; 15-17; 18-20 21-25
Demographics: Biological Sex	What sex were you assigned at birth, on your original birth certificate?	<i>[Multiple Choice]</i> Male; Female; Decline to answer	Male; Female
Demographics: Race/Ethnicity	What is your race or ethnic origin?	<i>[Yes vs No for each]</i> Black or African American; Hispanic, Latino, or Spanish; White; American Indian or Alaska Native; Asian; Native Hawaiian or other Pacific Islander; Middle Eastern or Northern African; Race, Ethnicity, or Origin not listed here	<i>[Consolidated responses]</i> Black or African American; Hispanic or Latino; White; Another race/ethnicity
Demographics: Sexual or Gender Minorities	<p>Sexual orientation: Sexual orientation is a person’s emotional, romantic, and/or sexual attractions to another person. There are many ways a person can describe their sexual orientation and many labels a person can use. Which of these options best describes your sexual orientation?</p> <p>Gender identity: Gender identity is how someone feels about their own gender. There are many ways a person can describe their gender identity and many labels a person can use. Which of the following terms best describes your current gender identity? Gender</p> <p>Transgender identity: Some people describe themselves as transgender and/or nonbinary when the way they think or feel about their gender is different from their sex assigned at birth. Do you identify as transgender and/or nonbinary?</p>	<p><i>[Multiple Choice]</i> Straight or heterosexual; Gay or lesbian; Bisexual/pansexual/or queer; Asexual; I am not sure; I don’t know what this question means; Decline to answer</p> <p><i>[Multiple Choice]</i> Girl or woman; Boy or man; Nonbinary/ genderfluid/ or genderqueer; Gender Identity not listed here. Please specify: _____ I am not sure or questioning; I don’t know what this question means; Decline to answer;</p> <p><i>[Multiple Choice]</i> No, I am not transgender and/or nonbinary; Yes, I am transgender and/or nonbinary; I am not sure yet or questioning if I am transgender and/or nonbinary; I don’t know what this question is asking; Decline to answer</p>	<p><i>[New measure developed from questions related to Sexual Orientation, Gender Identity and Transgender identity]</i></p> <p>Cisgender, heterosexual= Straight or heterosexual (sexual orientation) AND Girl/Woman or Boy/Man (Gender Identity) AND No, I am not transgender and/or nonbinary (transgender identity)</p> <p>LGBTQ+ = Other combination of responses</p>

Demographics: Parental Education	Think about the adults in your home raising you. What is the highest level of education for the adults in your home (If one has completed more years of school than another, please select the highest level of education)?	<i>[Multiple Choice]</i> Middle School; Some High School; High School/GED; Some College; College Degree; Graduate Degree (for example, Master's/PhD/MD); I don't know	<i>[Consolidated responses]</i> High school or less; Some college; College degree; Graduate degree
Demographics: Household Income	What is your best guess of your total household income before taxes?	<i>[Multiple Choice]</i> Less than \$10,000; \$10,000 to \$14,999; 15,000 to \$19,999; \$20,000 to \$29,999; \$30,000 to \$39,999; \$40,000 to \$49,999; \$50,000 to \$74,999; \$75,000 or more; Prefer not to answer	<i>[Consolidated responses]</i> <\$40k; \$40k-\$49k; \$50k-<\$75k; \$75k+
Demographics: Everyday Discrimination	In your day-to-day life how often have any of the following things happened to you? You are treated with less courtesy or respect than other people ... You receive poorer service than other people at restaurants or stores ... People act as if they think you are not smart ... People act as if they are afraid of you..... You are threatened or harassed...	<i>[Multiple Choice]</i> Almost everyday; At least once a week; A few times a month; A few times a year; Less than once a year; Never	<i>[Consolidated responses]</i> At least a few times a year; Less than once a year/Never
Demographics: Community ACES	How often, if ever... Do you feel safe in your community?... Do you see or hear someone being beaten up, stabbed, or shot in real life?... Do you feel you are being treated badly or unfairly because of your race/ethnicity?... Are you bullied by a peer or classmate?	<i>[Multiple Choice]</i> All of the time; Most of the time; Some of the time; None of the time	<i>[Consolidated responses]</i> Most or all of the time; Sometimes; Never
Demographics: Parental Separation	Have you been separated from one or more of your parents or caregivers for an extended time?	<i>[Multiple Choice]</i> No; Yes	N/A
Demographics: Immigration Concerns	In the last year, have you... Had concerns about any immigration matters for you or your family?...	<i>[Multiple Choice]</i> No; Yes	N/A
Demographics: Food Insecurity	Within the past 12 months the food you bought just didn't last and you didn't have money to get more?	<i>[Multiple Choice]</i> Never True; Sometimes True; Often True	<i>[Consolidated responses]</i> Never true; Often/Sometimes

<p>Demographics: Social Media Preferences</p>	<p>Of all social media sites, which do you use the most?</p>	<p><i>[Multiple Choice]</i> Instagram; TikTok; Snapchat; Discord; Pinterest; Facebook; YouTube; Twitter; Reddit; WhatsApp; Tumblr; Other; Please Specify</p>	<p><i>[Consolidated responses]</i> Instagram; Snapchat; Facebook; YouTube; WhatsApp; All other</p>
<p>Demographics: Employment Status</p>	<p><i>Job:</i> Do you have a job?</p> <p><i>Employment Status:</i> What is your current employment status?</p> <p><i>Current Grade:</i> What is your current grade?</p>	<p><i>[Multiple Choice]</i> No; Yes</p> <p><i>[Multiple Choice]</i> A student not looking for paid work; Casual work (irregular or informal work); Part-time work (less than 15 hours per week); Part-time work (15-34 hours per week); Regular full-time work (at least 35 hours per week); Unemployed; A homemaker or caregiver not looking for paid work; Prefer not to answer</p> <p><i>[Multiple Choice]</i> I have dropped out of school/I am no longer in school; 5th Grade or less; 6th Grade; 7th Grade; 8th Grade; 9th Grade; 10th Grade; 11th Grade; 12th Grade; Community college certificate or licensure student; Community college associates degree student; Undergraduate student or higher</p>	<p><i>[New measure developed from questions related to Job, Employment status, Current Grade, and Academic Program]</i></p> <p>Not working or in school = No (Job) AND Unemployed/A homemaker or caregiver not looking for paid work (Employment Status);</p> <p>In school and not working= No (Job) AND a student not looking for paid work (Employment Status);</p> <p>Working, not in school =Yes (Job) AND Casual work (irregular or informal work)/ Part-time work (less than 15 hours per week)/ Part-time work (15-34 hours per week)/ Regular full-time work (at least 35 hours per week) (Employment Status) AND I have dropped out of school/I am no longer in school/I am no longer enrolled in an academic institution (current grade or academic program);</p>

	<p><i>Academic Program:</i> What type of academic program are you enrolled in?</p>	<p><i>[Multiple Choice]</i> Highschool; Community College- certificate or licensure program; Community College- Associate degree program; Undergraduate student; Graduate student (medicine, law, etc.); I am no longer enrolled in an academic institution</p>	<p>In school and working= Yes (Job) AND Casual work (irregular or informal work)/ Part-time work (less than 15 hours per week) Part-time work (15-34 hours per week)/ Regular full-time work (at least 35 hours per week) (Employment Status) AND response other than I have dropped out of school/I am no longer in school/I am no longer enrolled in an academic institution (Current Grade or Academic Program);</p>
<p>Lifetime Substance Use</p>	<p><i>Alcohol:</i> Have you ever had a drink of alcohol? <i>Cigarettes:</i> Have you ever tried cigarette smoking, even one or two puffs? <i>E-Cigarettes:</i> Have you ever tried an e-cigarette or other vaping device? <i>Smokeless Tobacco:</i> Have you ever tried chewing tobacco, snuff, dip, snus, or pouches, such as Copenhagen, Grizzly, Skoal, or Camel Snus? <i>Cigar Products:</i> Have you ever smoked cigars, cigarillos, or little cigars? <i>Oral Nicotine Products:</i> Have you ever tried nicotine gummies, gums, lozenges or dissolvables such as Lucy, Krave, or Rogue? <i>Prescription Medications:</i> Have you ever used prescription medicine without a doctor's prescription or that you used it differently than how a doctor told you to use it? Have you ever used an over-the-counter medication (cough or cold medicine, "skittles," "DXM," "sizzurp," "Triple C's" etc) only for the experience or feeling it caused? <i>Cannabis:</i> Have you ever tried marijuana? <i>CBD:</i> Have you ever used CBD (cannabidiol)? <i>Delta 8/10/P:</i> Have you ever used Delta 8, Delta 10, or Delta P?</p>	<p><i>[Multiple Choice]</i> No; Yes</p>	<p>N/A</p>

	<p><i>Synthetic Cannabis:</i> Have you ever used synthetic marijuana (also called K2, Spice, or fake weed)?</p> <p><i>Kratom:</i> Have you ever used Kratom?</p> <p><i>Inhalant:</i> Have you ever sniffed glue, breathed the contents of aerosol spray cans, or inhaled any paints or sprays to get high?</p> <p><i>Steroids:</i> Have you ever taken steroid pills or shots without a doctor's prescription?</p> <p><i>Hallucinogens:</i> Have you ever used hallucinogens? (mushrooms, salvia, LSD, acid, ecstasy, MDMA, or PCP, etc)?</p> <p><i>Cocaine:</i> Have you ever used any form of cocaine (powder, crack, or freebase)?</p> <p><i>Heroin or Fentanyl:</i> Have you ever used heroin or fentanyl (smack, junk)?</p> <p><i>Methamphetamines:</i> Have you ever used methamphetamines (speed, crystal meth, crank, ice, or meth)?</p> <p><i>Polysubstance Use:</i> Did you ever use multiple substances (such as alcohol and cannabis) at the same time, such that the effects overlapped?</p>		
<p>Most Recent Substance Use</p>	<p><i>Alcohol:</i> When was the last time you had a drink of alcohol?</p> <p><i>Cigarettes:</i> When was the last time you smoked cigarettes?</p> <p><i>E-Cigarettes:</i> When was the last time you used an e-cigarette or other vaping device?</p> <p><i>Smokeless Tobacco:</i> When was the last time you used chewing tobacco, snuff, dip, snus, or pouches?</p> <p><i>Cigar Products:</i> When was the last time you smoked cigars, cigarillos, or little cigars?</p>	<p><i>[Multiple Choice]</i> In the last 30 days; In the last 12 months, but more than 30 days; More than 12 months ago</p>	<p>N/A</p>

	<p><i>Oral Nicotine:</i> When was the last time you used nicotine gummies, gums, lozenges or dissolvables?</p> <p><i>Prescription Medication:</i> When was the last time you used prescription medicine without a doctor's prescription or that you used it differently than how a doctor told you to use it?</p> <p><i>Cannabis:</i> When was the last time you used marijuana?</p> <p><i>Polysubstance Use:</i> When was the last time you consumed multiple substances at the same time, such that the effects overlapped?</p>		
Alcohol: Ever use	Have you ever had a drink of alcohol?	[Multiple Choice] No; Yes	N/A
Alcohol: Binge Drinking	During the last 2 weeks, how many times (if any) have you.... had 4 or more drinks in a row? had 5 or more drinks in a row?	[Multiple Choice] None; Once; Twice; 3 to 5 times; 6 to 9 times; 10 or more times	[Consolidated responses] No= None; Yes= Once or more
Alcohol: High Intensity Drinking	During the last 2 weeks, how many times (if any) have you.... had 10 or more drinks in a row? had 15 or more drinks in a row?	[Multiple Choice] None; Once; Twice; 3 to 5 times; 6 to 9 times; 10 or more times	[Consolidated responses] No=None; Yes= Once or more
Alcohol: Access	<i>Who did you get it from:</i> The last time you drank alcohol, who did you get from?	[Multiple Choice] I bought it myself (from a retail establishment, event, bar); I took it without permission; A friend (including at a party); A family member; Someone else (including gave someone money to buy it)	[New measure developed from questions related to where did you get it from, where did you buy it from, where did you take it from, and age of provider] A friend 21 or older = A friend (including at a party) (Who did you get it from) AND 21 or older (Age of Provider); A friend under 21= A friend (including at a party) (Who did you get it from) AND Under 21 (Age of Provider);

	<p><i>Where did you buy it from:</i> The last time you drank alcohol, where did you buy it from?</p>	<p><i>[Multiple Choice]</i> Online; Specialty store such as a liquor store (ABC Store, Total Wine, etc); Convenience store or gas station; Supermarket, discount store, grocery store, or warehouse store; Restaurant, bar, or club; Public event such as a concert or sporting event; I bought it from some other place;</p>	<p>A family member 21 or older= A family member (Who did you get it from) AND 21 or older (Age of Provider);</p> <p>A family member under 21 = A family member (Who did you get it from) AND under 21 (Age of Provider);</p> <p>Someone else 21 or older = Someone else (including gave someone money to buy it) (Who did you get it from) AND 21 or older (Age of Provider);</p> <p>Someone else under 21= Someone else (including gave someone money to buy it) (Who did you get it from) AND under 21 (Age of Provider);</p> <p>Bought from a specialty store (ABC, Total Wine)= I bought it myself (from a retail establishment, event, bar) (Who did you get it from) AND Specialty store such as a liquor store (ABC Store, Total Wine, etc) (Where did you buy it from); Bought from a convenience store or gas station= I bought it myself (from a retail establishment, event, bar) (Who did you get it from) AND Convenience store or gas station (Where did you buy it from);</p> <p>Bought from a supermarket, discount store, grocery store, or warehouse store = I bought it myself (from a retail establishment, event, bar) (Who did you get it from) AND Supermarket, discount store, grocery store, or warehouse store (Where did you buy it from);</p>
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	<p><i>Where did you take it from:</i> The last time you drank alcohol, where did you take it from?</p> <p><i>Age or provider:</i> The last time you drank alcohol, was the person who gave you alcohol...</p>	<p><i>[Multiple Choice]</i> A friend, family member, or someone else; A store; Restaurant, bar, or club; Public event such as a concert or sporting event; I took it from some other place</p> <p><i>[Multiple Choice]</i> 21 or older; Under 21; Don't know</p>	<p>Bought from a restaurant, bar or club = I bought it myself (from a retail establishment, event, bar) (Who did you get it from) AND Restaurant, bar, or club (Where did you buy it from);</p> <p>Took it without permission from a friend, family member, or someone else= I took it without permission (Who did you get it from) AND A friend, family member, or someone else (Where did you take it from);</p> <p>Took it without permission from a store= I took it without permission (Who did you get it from) AND A store (Where did you take it from)</p>
Alcohol: Who People Drank Alcohol With	The last time you drank alcohol, were you with any of the following people?	<p><i>[Choose all that apply]</i> No one else, by yourself; 1 or 2 other people; A large group of people; Your date, boyfriend, girlfriend; Your parent or caregiver; Other adults (over 21)</p>	<p><i>[Consolidated responses]</i> No one else; 1 or 2 other people (including a date); Your parent or caregiver; A large group of people; Other adults (21+)</p>
Alcohol: Where People Consumed Alcohol	The last time you drank alcohol, did you drink it in the following places?	<p><i>[Multiple Choice]</i> At your home or dorm; At your parent's or caregiver's home; At someone's home other than your own, your parent's or your caregiver's; At school; At a sorority or fraternity house; At a restaurant, bar, or nightclub; At a public event such as concert or sporting event; In a car; In the outdoors (a park, a beach, the woods, a barn etc); Somewhere else</p>	<p><i>[Consolidated responses]</i> Your home or dorm; Someone else's home= At your parent's or caregiver's home/ At someone's home other than your own, your parent's or your caregiver's; School or campus= At school/At a sorority or fraternity house; Restaurant, bar, or nightclub; Public event (concert, sporting event); Car; Outdoors (park, beach, woods, barn)</p>

Alcohol: Drove when had been drinking	In the past 30 days, how many times did you drive a car or other vehicle when you had been drinking alcohol?	<i>[Multiple Choice]</i> I did not drive a car or other vehicle during the past 30 days; None; Once; 2 or 3 times; 4 or 5 times; 6 or more times	<i>[Consolidated responses]</i> No= None or I did not drive a car or other vehicle during the past 30 days; Yes = Once or more
Alcohol: Rode with someone who had been drinking	During the past 30 days, how many times did you ride in a car or other vehicle driven by someone who had been drinking alcohol?	<i>[Multiple Choice]</i> None; Once; 2 or 3 times; 4 or 5 times; 6 or more times	<i>[Consolidated responses]</i> No= None; Yes= Once or more
Alcohol: Who was driving when you rode with someone who had been drinking?	The last time you rode in a car or other vehicle driven by someone who had been drinking, who was driving?	<i>[Multiple Choice]</i> Your date, boyfriend, or girlfriend; A friend; Your parent or caregiver; Other adult (over 21); Someone else, please specify; Decline to answer	<i>[Consolidated responses]</i> A friend or date; Parent or caregiver; Other adult (over 21)
Alcohol: Storage in the Home	Where are alcoholic beverages stored in your home?	<i>[Choose all that apply]</i> Kitchen refrigerator; Bar cart, wine rack, or countertop; Cabinet or pantry; Garage (extra fridge or shelves); I don't know of any alcoholic beverages in my home; Other Please Specify	N/A
Alcohol: Locked vs Unlocked Storage	Are alcoholic beverages stored in your home?	<i>[Choose all that apply]</i> Unlocked; Locked; Both locked and unlocked	N/A
Alcohol: Perceived Harmful Alcohol	How much do you think people risk harming themselves physically or in other ways if they have five or more drinks of an alcoholic beverage once or twice a week?	<i>[Multiple Choice]</i> No Risk; Slight Risk; Moderate Risk; Great Risk	<i>[Consolidated responses]</i> No= Slight/No risk; Yes= Great/Moderate
Alcohol: Friends Disapprove of Alcohol	How wrong do your friends feel it would be for you to have one or two drinks of an alcoholic beverage nearly every day?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong
Alcohol: Parents Disapprove of Alcohol	How wrong do your parents or caregivers feel it would be for you to drink alcohol regularly?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong

Alcohol: Adults Disapprove of Alcohol	How wrong would other adults (over 21) in your community think it is for kids your age to drink alcohol?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong
Alcohol: Parents Would Catch Drinking Alcohol	How strongly do you disagree or agree with the following statements? I would be caught by my parents or caregivers if I did the following in my home, had a drink of alcohol?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Alcohol: School Would Catch Drinking Alcohol	How strongly you disagree or agree with the following statements? I would be caught by school teachers or staff if I did the following on school property, had a drink of alcohol?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Alcohol: Police Would Catch Drinking Alcohol	How strongly you disagree or agree with the following statements? I would be caught by the police if I did the following in my community, had a drink of alcohol?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Alcohol: Friends Use of Alcohol	How many of your friends do you think drink alcohol?	<i>[Multiple Choice]</i> None; A few; Some; Most; All	<i>[Consolidated responses]</i> None/A few; Some/Most/All
Alcohol: Parents Use of Alcohol	How often do your parents or caregivers drink alcohol?	<i>[Multiple Choice]</i> Never; Rarely; Sometimes; Fairly Often; Frequently	<i>[Consolidated responses]</i> Never/Rarely; Sometimes/Fairly; often/Frequently
Alcohol: Difficult to get Alcohol	How difficult do you think it would be for you to get each of the following, if you wanted some alcohol?	<i>[Multiple Choice]</i> Probably Impossible; Very Difficult; Fairly Difficult; Fairly Easy; Very Easy	<i>[Consolidated responses]</i> Yes= Probably impossible/Very difficult; No= Fairly difficult/Fairly easy/Very easy
Cigarettes: Ever Use of Cigarettes	Have you ever tried cigarette smoking, even one or two puffs?	<i>[Multiple Choice]</i> No; Yes	N/A

Cigarettes: Access	Who did you get them from: The last time you smoked cigarettes, who did you get from?	<i>[Multiple Choice]</i> I bought it myself (from a retail establishment, event, bar); I took it without permission; A friend (including at a party); A family member; Someone else (including gave someone money to buy it)	<i>[New measure developed from questions related to where did you get them from, where did you buy them from, where did you take them from, and age of provider]</i> A friend 21 or older = A friend (including at a party) (Who did you get them from) AND 21 or older (Age of Provider); A friend under 21= A friend (including at a party) (Who did you get them from) AND Under 21 (Age of Provider); A family member 21 or older= A family member (Who did you get them from) AND 21 or older (Age of Provider); A family member under 21 = A family member (Who did you get them from) AND under 21 (Age of Provider);
	Where did you buy them from: The last time you smoked cigarettes, where did you buy them from?	<i>[Multiple Choice]</i> Online; Online; Specialty store such as a smoke shop or tobacco outlet; Convenience store or gas station; Supermarket, discount store, grocery store, or warehouse store; Restaurant, bar, or club; Public event such as a concert or sporting event; I bought it from some other place	Someone else 21 or older = Someone else (including gave someone money to buy it) (Who did you get them from) AND 21 or older (Age of Provider); Someone else under 21= Someone else (including gave someone money to buy it) (Who did you get them from) AND under 21 (Age of Provider);
	Where did you take them from: The last time you smoked cigarettes, where did you take them from?	<i>[Multiple Choice]</i> A friend, family member, or someone else; A store; Restaurant, bar, or club; Public event such as a concert or sporting event; I took it from some other place	Took it without permission from a friend, family member, or someone else= I took it without permission (Who did you get them from) AND A friend, family member, or someone else (Where did you take them from);

	<p>Age of Provider: The last time you smoke cigarettes, was the person who gave it to you...</p>	<p><i>[Multiple Choice]</i> 21 or older; Under 21; Don't know</p>	<p>Bought from a specialty store such as a smoke shop or tobacco outlet= I bought it myself (from a retail establishment, event, bar) (Who did you get them from) AND a specialty store such as a smoke shop or tobacco outlet; (Where did you buy them from);</p> <p>Bought from a convenience store or gas station= I bought it myself (from a retail establishment, event, bar) (Who did you get them from) AND Convenience store or gas station (Where did you buy them from);</p> <p>Bought from a supermarket, discount store, grocery store, or warehouse store = I bought it myself (from a retail establishment, event, bar) (Who did you get them from) AND Supermarket, discount store, grocery store, or warehouse store (Where did you buy them from);</p> <p>Bought from a public event= I bought it myself (from a retail establishment, event, bar) (Who did you get them from) AND Public event such as a concert or sporting event (Where did you buy them from);</p> <p>Took it without permission from a public event such as a concert or sporting event= I took it without permission (Who did you get them from) AND Public event such as a concert or sporting event (Where did you take them from)</p> <p>Took it without permission from a store= I took it without permission AND A store (Where did you take them from)</p>
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Cigarettes: Perceived harmful Cigarettes	How much do you think people risk harming themselves physically or in other ways if they have smoke one or more packs of cigarettes per day?	<i>[Multiple Choice]</i> No Risk; Slight Risk; Moderate Risk; Great Risk	<i>[Consolidated responses]</i> No= Slight/No risk; Yes= Great/Moderate
Cigarettes: Friends Disapprove of Cigarettes	How wrong do your friends feel it would be for you to smoke cigarettes?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong
Cigarettes: Parents Disapprove of Cigarettes	How wrong do your parents or caregivers feel it would be for you to smoke cigarettes?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong
Cigarettes: Adults Disapprove of Cigarettes	How wrong would other adults (over 21) in your community think it is for kids your age to smoke cigarettes?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong
Cigarettes: Parents Would Catch Smoking Cigarettes	How strongly do you disagree or agree with the following statements? I would be caught by my parents or caregivers if I did the following in my home, smoked cigarettes?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Cigarettes: School Would Catch Smoking Cigarettes	How strongly you disagree or agree with the following statements? I would be caught by school teachers or staff if I did the following on school property, smoked cigarettes?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Cigarettes: Police Would Catch Smoking Cigarettes	How strongly you disagree or agree with the following statements? I would be caught by the police if I did the following in my community, smoked cigarettes?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> Neither/Disagree/Strongly Disagree; Strongly Agree/Agree
Cigarettes: Friends Use of Cigarettes	How many of your friends do you think smoke cigarettes?	<i>[Multiple Choice]</i> None; A few; Some; Most; All	<i>[Consolidated responses]</i> None/A few; Some/Most/All

Cigarettes: Parents Use of Cigarettes	How often do your parents or caregivers smoke cigarettes?	<i>[Multiple Choice]</i> Never; Rarely; Sometimes; Fairly Often; Frequently	<i>[Consolidated responses]</i> Never/ Rarely; Sometimes/Fairly; often/ Frequently
Cigarettes: Difficult to Get Cigarettes	How difficult do you think it would be for you to get each of the following, if you wanted some cigarettes?	<i>[Multiple Choice]</i> Probably Impossible; Very Difficult; Fairly Difficult; Fairly Easy; Very Easy	<i>[Consolidated responses]</i> Yes= Probably impossible/Very difficult; Yes= Fairly difficult/Fairly easy/Very easy
Nicotine Vape: Ever Use of E-Cigarettes	Have you ever tried an e-cigarette or other vaping device?	<i>[Multiple Choice]</i> No; Yes	N/A
Nicotine Vape: Access	Who did you get it from: The last time you used an e-cigarette or other vaping device, who did you get from?	<i>[Multiple Choice]</i> I bought it myself (from a retail establishment, event, bar); I took it without permission; A friend (including at a party); A family member; Someone else (including gave someone money to buy it)	<i>[New measure developed from questions related to where did you get it from, where did you buy it from, where did you take it from, and age of provider]</i> A friend 21 or older = A friend (including at a party) (Who did you get it from) AND 21 or older (Age of Provider); A friend under 21= A friend (including at a party) (Who did you get it from) AND Under 21 (Age of Provider); A family member 21 or older= A family member (Who did you get it from) AND 21 or older (Age of Provider);

			<p>Bought from a public event= I bought it myself (from a retail establishment, event, bar) (Who did you get it from) AND Public event such as a concert or sporting event (Where did you buy it from);</p> <p>Took it without permission from a public event such as a concert or sporting event= I took it without permission (Who did you get it from) AND Public event such as a concert or sporting event (Where did you take it from)</p> <p>Took it without permission from a store= I took it without permission AND A store (Where did you take it from)</p>
Nicotine Vape: Perceived Harmful E-Cigarettes	How much do you think people risk harming themselves physically or in other ways if they have use an electronic vapor product regularly?	<i>[Multiple Choice]</i> No Risk; Slight Risk; Moderate Risk; Great Risk	<i>[Consolidated responses]</i> No= Slight/No risk; Yes= Great/Moderate
Nicotine Vape: Friends Disapprove of E-Cigarettes	How wrong do your friends feel it would be for you to use an electronic vapor product regularly?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong
Nicotine Vape: Parents Disapprove of E-Cigarettes	How wrong do your parents or caregivers feel it would be for you to use an electronic vapor product?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong
Nicotine Vape: Adults Disapprove of E-Cigarettes	How wrong would other adults (over 21) in your community think it is for kids your age to use an electronic vapor product?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong
Nicotine Vape: Parents Would Catch using E-Cigarettes	How strongly do you disagree or agree with the following statements? I would be caught by my parents or caregivers if I did the following in my home, used an electronic vapor products?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree

Nicotine Vape: School Would Catch using E-Cigarettes	How strongly you disagree or agree with the following statements? I would be caught by school teachers or staff if I did the following on school property, used an electronic vapor product?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Nicotine Vape: Police Would Catch using E-Cigarettes	How strongly you disagree or agree with the following statements? I would be caught by the police if I did the following in my community, used an electronic vapor products?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Nicotine Vape: Friends Use of E-Cigarettes	How many of your friends do you think use an electronic vapor product?	<i>[Multiple Choice]</i> None; A few; Some; Most; All	<i>[Consolidated responses]</i> No= None/A few; Yes= Some/Most/All
Nicotine Vape: Parents Use of E-Cigarettes	How often do your parents or caregivers use an electronic vapor product?	<i>[Multiple Choice]</i> Never; Rarely; Sometimes; Fairly Often; Frequently	<i>[Consolidated responses]</i> No= Never/Rarely; Yes= Sometimes/Fairly often/ Frequently
Nicotine Vape: Difficult to get E-Cigarettes	How difficult do you think it would be for you to get each of the following, if you wanted some an electronic vapor product?	<i>[Multiple Choice]</i> Probably Impossible; Very Difficult; Fairly Difficult; Fairly Easy; Very Easy	<i>[Consolidated responses]</i> Yes= Probably impossible/Very difficult; No= Fairly difficult/Fairly easy/Very easy
Prescription Medication: Ever Use	Have you ever used prescription medicine without a doctor's prescription or that you used it differently than how a doctor told you to use it?	<i>[Multiple Choice]</i> No; Yes	N/A
Prescription Medication: Type Misused	The last time you used prescription medications that were not prescribed to you or that you used differently than how a doctor told you to, what type did you take?	<i>[Select all that apply]</i> Pain Medicines (OxyContin, Vicodin, Codeine, Hydrocodone, Percocet, etc); ADHD Medicines (Adderall, Ritalin, etc); Anxiety or Sleep Medicines (Xanax, Valium, Klonopin, etc); Antiseizure or Anticonvulsant Medicines (Gabapentin, Neurotin etc); Other Please specify	N/A

<p>Prescription Medication: Access</p>	<p>Who did you get them from: The last time you used prescription medications that were not prescribed to you or that you used differently than how a doctor told you to, who did you get them from?</p> <p>Where did you take them from: The last time you used prescription medications that were not prescribed to you or that you used differently than how a doctor told you to, where did you take them from?</p>	<p><i>[Multiple Choice]</i> I got them from my own prescription (but did not use in the way the doctor directed); I took them without permission; A friend (including at a party); A family member; Someone else (including gave someone money to buy them); Some other way please specify</p> <p><i>[Multiple Choice]</i> My home; Another family member's home; Somebody else's home; A doctor's office, clinic, hospital, or pharmacy <i>[Multiple Choice]</i></p>	<p><i>[New measure developed from questions related to where did you get them from and where did you take them from]</i></p> <p>I got them from my own prescription (but did not use in the way the doctor directed)= I got them from my own prescription (but did not use in the way the doctor directed) (Who did you get them from);</p> <p>A friend= A friend (including at a party) (Who did you get them from);</p> <p>A family member= A family member (Who did you get them from);</p> <p>Someone else= Someone else (including gave someone money to buy them) (Who did you get them from);</p> <p>Took them from my home= My Home (Where did you take them from);</p> <p>Took them from another family member's home= Another family member's home (Where did you take them from);</p> <p>Took them from someone else's home= Somebody else's home (Where did you take them from);</p> <p>Took them from a doctor's office, clinic, hospital, or pharmacy= A doctor's office, clinic, hospital, or pharmacy (Where did you take them from);</p>
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Prescription Medication: Storage in the Home	Where are the prescription medications stored in your home?	<i>[Choose all that apply]</i> Nightstand or countertop; Cabinet or drawer; Refrigerator; Purse or Bag; I don't know of any prescription medications in my home; Somewhere else; Please Specify	N/A
Prescription Medication: Locked vs Unlocked Storage	Are prescription medications stored in your home?	<i>[Choose all that apply]</i> Unlocked; Locked; Both locked and unlocked	N/A
Prescription Medication: Perceived Harmful Use of Prescription Medication	How much do you think people risk harming themselves physically or in other ways if they use prescription medications that are not prescribed to them?	<i>[Multiple Choice]</i> No Risk; Slight Risk; Moderate Risk; Great Risk	<i>[Consolidated responses]</i> Slight/No risk Great/Moderate;
Prescription Medication: Friends Disapprove Use of Prescription Medication	How wrong do your friends feel it would be for you to use prescription medications not prescribed to you?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong
Prescription Medication: Parents Disapprove Use of Prescription Medication	How wrong do your parents or caregivers feel it would be for you to use prescription medications not prescribed to you?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong
Prescription Medication: Adults Disapprove Use of Prescription Medication	How wrong would other adults (over 21) in your community think it is for kids your age to use prescription medications not prescribed to you?	<i>[Multiple Choice]</i> Not at all wrong; A little bit wrong; Wrong; Very wrong	<i>[Consolidated responses]</i> No= A little bit/Not at all wrong; Yes= Very wrong/Wrong
Prescription Medication: Parents Would Catch Use of Prescription Medication	How strongly do you disagree or agree with the following statements? I would be caught by my parents or caregivers if I did the following in my home, took prescription medications not prescribed to you?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree

Prescription Medication: School Would Catch Use of Prescription Medication	How strongly you disagree or agree with the following statements? I would be caught by school teachers or staff if I did the following on school property, took prescription medications not prescribed to you?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Prescription Medication: Police Would Catch Use of Prescription Medication	How strongly you disagree or agree with the following statements? I would be caught by the police if I did the following in my community, took prescription medications not prescribed to you?	<i>[Multiple Choice]</i> Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	<i>[Consolidated responses]</i> No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Prescription Medication: Friends Use of Prescription Medication	How many of your friends do you think use prescription medications not prescribed to them?	<i>[Multiple Choice]</i> None; A few; Some; Most; All	<i>[Consolidated responses]</i> None/A few; Some/Most/All
Prescription Medication: Difficult to Get Use of Prescription Medication	How difficult do you think it would be for you to get each of the following, if you wanted some prescription medications not prescribed to you?	<i>[Multiple Choice]</i> Probably Impossible; Very Difficult; Fairly Difficult; Fairly Easy; Very Easy	<i>[Consolidated responses]</i> Yes= Probably impossible/Very difficult; No= Fairly difficult/Fairly easy/Very easy
Cannabis: Ever Use	Have you ever tried marijuana?	<i>[Multiple Choice]</i> No; Yes	N/A
Cannabis: Route of Ingestion	The last time you used marijuana, how did you use it?	<i>[Multiple Choice]</i> I smoked it; I vaped it; I ate or drank it; I dabbed it; Other	<i>[Consolidated responses]</i> I smoked it; I vaped it; I ate or drank it; I dabbed it

Cannabis: Parents Would Catch Use of Cannabis	How strongly do you disagree or agree with the following statements? I would be caught by my parents or caregivers if I did the following in my home, used marijuana?	[Multiple Choice] Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	[Consolidated responses] No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Cannabis: School Would Catch Use of Cannabis	How strongly you disagree or agree with the following statements? I would be caught by school teachers or staff if I did the following on school property, used marijuana?	[Multiple Choice] Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	[Consolidated responses] No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Cannabis: Police Would Catch Use of Cannabis	How strongly you disagree or agree with the following statements? I would be caught by the police if I did the following in my community used marijuana?	[Multiple Choice] Strongly Disagree; Disagree; Neither Disagree Nor Agree; Agree; Strongly Agree	[Consolidated responses] No= Neither/Disagree/Strongly Disagree; Yes= Strongly Agree/Agree
Cannabis: Friends Use of Cannabis	How many of your friends do you think use Marijuana?	[Multiple Choice] None; A few; Some; Most; All	[Consolidated responses] None/A few; Some/Most/All
Cannabis: Difficult to Get Cannabis	How difficult do you think it would be for you to get each of the following, if you wanted some marijuana?	[Multiple Choice] Probably Impossible; Very Difficult; Fairly Difficult; Fairly Easy; Very Easy	[Consolidated responses] Probably impossible/Very difficult; Fairly difficult/Fairly easy/Very easy
General Risk and Protective Factors: Future Oriented	How much are the following like you? I am hopeful about my future; When I make a decision, I consider the impact it will have on my future; I think about who I will be when I'm older.	[Multiple Choice] Strongly Disagree=0; Disagree=1; Neither disagree nor agree=2; Agree=3; Strongly Agree=4	[Responses are calculated by averaging the numerical values of the response options selected for each question in the scale] High= Average ≥ 3 Low= average < 3
General Risk and Protective Factors: High Self Efficacy	How much do you disagree or agree with each statement? I can manage to solve difficult problems if I try hard enough; I am confident that I could deal efficiently with unexpected events; If I am in trouble, I can think of a solution; I can handle whatever comes my way.	[Multiple Choice] Strongly Disagree=0; Disagree=1; Neither disagree nor agree=2; Agree=3; Strongly Agree=4	[Responses are calculated by averaging the numerical values of the response options selected for each question in the scale] High= Average ≥ 3 Low= average < 3

General Risk and Protective Factors: Sense of Contribution	How much do you disagree or agree with each statement? I can make a positive difference in my community; I have opportunities to show others that I am growing up and can act responsibly	[Multiple Choice] Strongly Disagree=0; Disagree=1; Neither disagree nor agree=2; Agree=3; Strongly Agree=4	<i>[Responses are calculated by averaging the numerical values of the response options selected for each question in the scale]</i> High= Average ≥ 3 Low= average < 3
General Risk and Protective Factors: Close Relationships	How much do you disagree or agree with each statement? I have a close relationship with one or more adults outside my family; There are people in my life who I can talk to about my problems	[Multiple Choice] Strongly Disagree=0; Disagree=1; Neither disagree nor agree=2; Agree=3; Strongly Agree=4	<i>[Responses are calculated by averaging the numerical values of the response options selected for each question in the scale]</i> High= Average ≥ 3 Low= average < 3
General Risk and Protective Factors: Sense of Connection	I feel connected ... To my family? To my friends? To people in my school? To people in my community? I have at least one group I feel connected to (for example a sports team, friend group, or a club)	[Multiple Choice] Strongly Disagree=0; Disagree=1; Neither disagree nor agree=2; Agree=3; Strongly Agree=4	<i>[Responses are calculated by averaging the numerical values of the response options selected for each question in the scale]</i> High= Average ≥ 3 Low= average < 3
General Risk and Protective Factors: Prosocial Activities	Are the following statements true of you? I am involved in one or more organized activity, sports team, or club... I attend or am involved in religious or faith-based services in person or online...	[Multiple Choice] No; Yes; Not Applicable	N/A
Harm Reduction and Recovery: Good Samaritan Laws	The NC 911 Good Samaritan Laws states that individuals who experience a drug overdose or persons who witness an overdose and seek help for the victim can no longer be prosecuted for possession of small amounts of drugs, paraphernalia, or underage drinking. Prior to this survey, had you heard of the NC 911 Good Samaritan Law?	[Multiple Choice] No; Yes	N/A
Harm Reduction and Recovery: Recovery for Alcohol	Are you currently in recovery for alcohol misuse?	[Multiple Choice] No; Yes	N/A

Harm Reduction and Recovery: for Other Substance	Are you currently in recovery for misusing substances (other than alcohol)?	<i>[Multiple Choice]</i> No; Yes	N/A
Mental Health: Stress	Stress means a situation in which a person feels tense, restless, nervous, or anxious, or is unable to sleep at night because their mind is troubled all the time. Have you felt this kind of stress in the last month?	<i>[Multiple Choice]</i> Not at all; A little bit; Somewhat; Quite a bit; Very much	<i>[Consolidated responses]</i> Not at all/A little bit/Somewhat; Quite a bit/Very much
Mental Health: Mental Health	In general, how is your mental health?	<i>[Multiple Choice]</i> Excellent; Very good; Good; Fair; Poor	<i>[Consolidated responses]</i> Excellent/Very good/Good; Fair/Poor;
Mental Health: C-19 Impact on Mental Health	Has Covid-19 had a negative impact on your mental health (such as isolation, feeling alone, helplessness, depression, or anxiety)?	<i>[Multiple Choice]</i> No; Yes	N/A
Mental Health: Environmental and Natural Disaster Impact on Mental Health	In general, are you experiencing any negative effects from a natural or environmental disaster in your community, for example housing damage, physical or emotional health effects, or family job loss from a hurricane, tornado, flooding, chemical spill, water pollution, or industrial fire)?	<i>[Multiple Choice]</i> No; Yes	N/A
Mental Health: Access to Mental Health Services	Are the following statements true of you? I have access to mental health support services (such as counseling) If I feel sad, stressed, or depressed	<i>[Multiple Choice]</i> No; Yes	N/A

Thank You!

Wake Forest University School of Medicine would like to acknowledge and thank the youth and young adults who participated in the North Carolina Youth and Young Adult Substance Use Prevention Survey.

Resource List

Resource websites for surveys are available in English and Spanish

English

- school.wakehealth.edu/departments/public-health-sciences/research-studies/north-carolina-statewide-prevention-survey

Spanish

- school.wakehealth.edu/departments/public-health-sciences/research-studies/encuesta-estatal-de-prevencion-de-carolina-del-norte