

CANNABIS

1 in 3 teens have tried cannabis by 12th grade.

Young people who use e-cigarettes are over 3X more likely to use cannabis than those who do not. 3X

More than 6% of high school seniors use cannabis daily

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Research has consistently found that cannabis can have lasting impacts on the adolescent brain, which is still developing until around age 25.

Vaping cannabis has been linked with lung illnesses.



20 States plus D.C. 38 States plus D.C. have approved medical cannabis.



THE LINK BETWEEN CANNABIS AND TOBACCO

Many states have increased legal access to cannabis products recently, with 38 states plus D.C. legalizing medical cannabis, 27 states plus D.C. decriminalizing the possession of cannabis, and 20 states plus D.C. legalizing cannabis for adult recreational use. Although overall cannabis use patterns nationwide have remained steady, including among youth in states where cannabis is legal, vaping cannabis as a commonly used method of consumption is on the rise.²

Cannabis and tobacco products (including cigarettes, e-cigarettes, and smokeless tobacco products) are two of the most commonly used substances among U.S. youth.^{3,4} Tobacco and cannabis use patterns are also evolving, and many teens are combining the two products. Among youth aged 12-17, co-use of cannabis and tobacco is more prevalent than using both substances by themselves. In addition, a study that analyzed data collected from October 2018 found that odds of cannabis use were higher among youth who had a history of using e-cigarettes.⁶ These are concerning trends given that cannabis has potentially dangerous effects on young people; youth cannabis use negatively impacts brain development,⁸ and shows worrying links to depression and earlier onset and worse symptoms of psychotic illness in those who are susceptible.9-11 Young people who use nicotine and cannabis are exposed to negative health effects of both substances – nicotine is highly addictive and can also negatively impact developing brains¹¹⁹ – warranting continued surveillance of youth cannabis use. In addition, the increase in cannabis legalizations and an evolving policy landscape concerning cannabis has rapidly brought about new products that should be monitored to ensure that these products do not attract new youth users.

This resource presents information about the current state of legalization and changing state laws regarding cannabis, the evolving product landscape, as well as cannabis use patterns among youth and adults and the health effects resulting from such use.

What is cannabis?

- Cannabis is a plant that produces active chemicals that can affect the entire body when consumed.
- Cannabis is primarily used for the psychoactive mindaltering component known as Tetrahydrocannabinol (THC). Delta-9 THC is the primary form of THC consumed. The cannabis plant can be harvested to produce concentrates, extracts, and edibles.
- > THC can be ingested orally, smoked, inhaled as a vapor, sprayed under the tongue, used on skin, and mixed into food products as edibles.
- Side effects of cannabis use can include impairment in attention, judgment and short-term memory, slow coordination, worsened balance, and increased heart rate. Users may experience anxiety and paranoia. It can also irritate the throat and lungs and disrupt sleeping patterns. Long-term use has been associated with impairments in learning and memory with a potential loss of IQ.¹⁴
- > Today's cannabis is substantially more potent than it was two decades ago, providing a more intense and longer high, and more pronounced physical and mental side effects.¹⁵ THC concentrations of vaporized hash oil and waxes that are modified for use in vaping devices can exceed those of dried cannabis by four to 30 times.^{16,17}

CANNABIS AND HEMP-DERIVED PRODUCTS

The cannabis landscape is quickly evolving, and new products such as hemp-derived products are becoming more popular. These products have complicated regulations surrounding cannabis and cannabis use patterns.

- Cannabidiol (CBD) is a non-psychoactive component of the cannabis plant. At the federal level, CBD derived from hemp with THC concentrations of less than 0.3 percent is legal, and some states have acted to legalize it in their jurisdictions.¹⁸
- Hemp is another name for the cannabis plant usually grown with low amounts of THC specifically to make products like rope, paper, cloth and soap.¹⁹ Hemp was removed from the federal Controlled Substance Act in 2018, making it legal at the federal level. However, it is still illegal in some states.¹⁸
- () Hemp-derived products like Delta-8, Delta-10, and Hexahydrocannabinol have grown in popularity, producing a "high" milder than traditional Delta-9 THC. Because products are made from hemp, they are federally legal. The 2018 Farm Bill Act defines hemp as "...the plant Cannabis sativa L. and any part of that plant, including the seeds thereof and all derivatives. extracts, cannabinoids, isomers, acids, salts, and salts of isomers, whether growing or not, with a Delta-9 tetrahydrocannabinol concentration of not more than 0.3 percent on a dry weight basis."20 The Farm Bill defined hemp as the cannabis plant with less than 0.3% of THC. This meant that the cannabis plant with less than 0.3% is no longer considered a Schedule I Drug subject to the Controlled Substance Act. In addition, this language is credited with unintentionally expanding the cannabis market beyond Delta-9 THC and the sale of certain CBD products like hemp-derived products.^{20,21} As of January 2023, 17 states have taken action to make these new hemp-

The cannabis landscape is quickly evolving, and new products must be monitored to ensure they do not attract new youth users.

derived products illegal.²²⁻²⁴ Furthermore, the Food and Drug Administration has stated that it must approve any health claims in hempderived CBD products, which is important because unverified and unregulated health claims related to these products have been reported.²⁵⁻²⁷

- Delta-8 is a psychotropic hemp-derived compound (cannabinoid) found naturally in cannabis in small quantities. It is traditionally similar to the Delta-9 THC found in cannabis, but produces less of a "high." However, Delta-8 is now synthesized to produce euphoric states similar to Delta-9.²⁸ Primary methods of consumption of Delta-8 include vape liquids, edibles, cannabis oils, and capsules.²⁸ Delta-8 can cause hallucinations, vomiting, tremors, anxiety, dizziness, confusion, and loss of consciousness.²⁹
- > Delta-10 is another hemp-derived compound that creates less of a "high" than Delta-8. Delta-10 is also reported to have energizing effects compared to Delta-8's more sedative effects.³⁰ The primary method of Delta-10 consumption is vape cartridges and edibles.³⁰
- Hexahydrocannabinol (HHC) is created from CBD extracted from hemp and is primarily consumed in the form of vape cartridges.³¹ Manufacturers state that the "high" experience from HHC is similar to a Delta-8 high, implying it is more subdued than traditional Delta-9. However, there is a lack of consensus on the potency of HHC.³¹

More than 40% of states have legalized cannabis



Cannabis is currently the most commonly used illicit drug in the United States.³² Despite its federal status as an illegal substance, 21 states and D.C. have legalized adult use for those aged 21 and up and another 38 states and D.C. have legalized cannabis use for medicinal purposes as of July 2023.³³

At the federal level, cannabis (except cannabis with a THC concentration of 0.3 percent or less) remains a "Schedule I" substance, which is a drug or chemical the federal government considers at high risk for abuse and possesses little or no medical benefit.³⁴ The rapidly evolving legal status of cannabis has left the cannabis retail market in disarray with a dearth of federal standards and disparate policies and varying levels of enforcement at the state level. For instance, unlicensed stores and smoke shops that sell cannabis illegally are a known problem.³⁵ Colorado has many inconsistencies in its cannabis regulations, yet several states and countries have used the state as a model for their policies.³⁶ CBD products present another tricky aspect in retail and enforcement because they are federally illegal but legal in certain states.³⁷ The cannabis product itself varies widely because there are no standards for extraction, few testing labs, a lack of federal standards, and a variety of breeding practices.³⁸

Prevalence of lifetime use of alcohol, cigarettes, e-cigarettes and cannabis among youth: 2000-2021



YOUTH CANNABIS USE REMAINS STEADY

Nationwide, youth cannabis use has remained steady over the past 10 years, despite significant drops in smoking prevalence and alcohol use.³⁹

As alcohol and cigarette use decline among youth, cannabis is increasingly the first substance young people use. Research also shows that cannabisnaïve adolescents who have used e-cigarettes are significantly more likely to report cannabis use one year later compared with those who have not used e-cigarettes.⁴¹ Other recent surveys have found that:

- More than 1 in 3 (38.3%) teens have tried cannabis by the 12th grade.⁴²
- Nearly 18% (17.9%) of teens used cannabis in the past year and 11% used it in the past 30 days.⁴⁰
- Almost a third of 12th graders used cannabis in the past year.

In 2022, 8.3% of 8th graders, 19.5% of 10th graders and 30.7% of 12th graders used cannabis in the past year.^{41,42}

More than 20% of high school seniors and 12% of 10th graders used cannabis in the past month.

In 2022, 5% of 8th graders, 12.1% of 10th graders and 20.2% of 12th graders used cannabis in the past month. 41,42

More than 6% of high school seniors used cannabis daily.

Almost 1 in 16 12th graders (6.3%) reported smoking cannabis daily in 2022.^{41,42}

Cannabis is "fairly easy to obtain."

70% of 12th graders who have used cannabis reported cannabis being fairly easy or very easy for them to obtain, including in states where it remained illegal, in 2021.⁴¹

Youth use may be affected by medical legalization.

A 2022 study found that assuming states attain the median medical cannabis market size of around 1% of adults, the prevalence of cannabis use in the last month will rise from 7.6% to 8.2% for 12-17 year olds.⁴³

There is mixed evidence of adult recreational cannabis laws affecting youth use.

A 2022 Colorado study evaluating the impact of recreational cannabis legalization found that cannabis use among adolescents has remained consistent, yet use among young adults has grown. Also, Colorado adolescents of all ages use cannabis with higher prevalence than youth in the rest of the United States.⁴⁴ A 2019 national study found that legalized adult cannabis use for non-medical purposes has resulted in an increase in youth use of around 11%.⁴⁵ A review of multiple studies found that six studies reported a decrease in adolescent use prevalence, while seven studies reported an increase in use prevalence.⁴⁶

For young people, smoking is the most common method of cannabis use. The most frequent and consistent route of cannabis use among adolescents was smoking (99%), followed by edible use (61%), and then vaping (44%) across their lifetimes, according to 2016 data.⁴⁷

Adult use remains steady, but is more common in states that have legalized cannabis for adult use

Adult cannabis use has increased in recent years, with higher prevalence in most states where it is legal to consume cannabis.³²

More than 12% of adults used cannabis in the past month.

In 2021, nearly 14% (13.7%) of U.S. adults aged 18 and older – 34.9 million people – used cannabis in the past month.⁴⁸

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Most adults that currently use cannabis consume cannabis by smoking.

In 2014, the most popular way of consuming cannabis among adults that are current cannabis users was a bowl or pipe (49.5%), followed by a joint (49.2%). There is lesser use of a bong, water pipe, or hookah (21.7%), blunts (20.3%), edibles/ drinks (16.1%), and vaporizers (7.6%).⁴⁹

Men are more likely to regularly use cannabis than women.

Regular (i.e., use in the past 30 days) cannabis use is more common in men (16.2%) than women (11.4%).^{48,50}

• Adult use is higher in states where cannabis is legal.

Adult use is around two to three percentage points higher in states with legalized medical cannabis and as much as 23% higher among adults in states with legalized recreational cannabis.^{51,52}

DISPARITIES IN CANNABIS USE

Racial/ethnic disparities

Several studies from 2022 have found that prevalence of tobacco and cannabis co-use are higher among Black populations compared to other racial/ethnic groups.⁵³ Additionally, within a sample of pregnant women in 2017, Black women have increased odds of co-using cannabis and tobacco compared to only using tobacco.⁵⁴

Sexual minority disparities

When compared to heterosexual women, bisexual women had 2.89x higher prevalence and lesbian/ gay women had 2.04x higher prevalence of past year cannabis use.⁵⁵ Bisexual men had 1.39x higher prevalence and gay men had 1.29x higher prevalence of past year cannabis use compared to heterosexual men.⁵⁵ Compared to heterosexual youths, lesbian/gay youth had 2.67x higher odds and bisexual youth had 2.78x higher odds of co-using cannabis and nicotine.⁵⁶

Income disparities

The prevalence of cannabis use and cannabis use disorder is greatest in adults at the lowest income level (\$0-\$19,999), compared to those at all higher incomes (\$20,000-\$34,999, \$35,000-\$69,999, and >\$70,000) from 1991 to 2013.⁵⁸

CANNABIS AND TOBACCO: COMMON USE PATTERNS

Cannabis and tobacco products (including cigarettes, e-cigarettes, and smokeless tobacco products) are two of the most commonly used substances among youth in the United States.^{3,4} In addition, a 2018 study found that, in U.S. youth ages 12-17, co-use of cannabis and tobacco is more prevalent than the use of cannabis or tobacco only.^{62,63}

Young adults who use cannabis more frequently are likely at risk for greater tobacco exposure, and vice versa. Participants in a study of young adults in California who used cannabis recently were 65% more likely to report use of multiple tobacco products than those who reported no recent cannabis use at baseline.⁶⁴ Additional studies have found other notable patterns, including:

- Past month cannabis use and daily cannabis use are more common among those who smoke cigarettes. Among youth ages 12-17 who used cigarettes daily, 29.9% used cannabis daily.⁶⁵
- A study published in 2022 analyzing data from 2017 and 2019 found that youth who use e-cigarettes are over three times more likely to use cannabis than those who do not.⁶⁶
- E-cigarette use predicts later cannabis use among youth, especially among young adolescents.^{67,68}

HOW CANNABIS IS CONSUMED

- Spliffs − Rolled cannabis and tobacco cigarette.
- ➢ Blunts Cannabis rolled in tobacco leaf.
- Spliff vapes Vapes that combine cannabis oil and nicotine.
- DIY THC/CBD Juul Pods Juul-like pods that contain THC and/or CBD oil. This can be made at home or pre-filled pods can be sold.⁶⁹
- Disposable vapes, cartridges, and pods Vapes that can be disposed of after using all the product. Similar to disposable nicotine vapes, but it may contain CBD and/or THC instead.⁷⁰

Racial/ethnic inequities regarding cannabis

- Historically, Black and Latino people in the U.S. have been disproportionately targeted when it comes to cannabis enforcement.
 - Black people are more than 3X more likely to be arrested for cannabis possession compared to white people, despite similar prevalence of cannabis use.⁵⁹
 - More than three quarters (77%) of federal cannabis sentences were for Latino people, even though they only comprised 20% of the U.S. population in 2015 and only 10.5% aged 12 or older used cannabis in the past month.^{59,60}
- Recently, there have been efforts to attenuate racial/ethnic inequities surrounding cannabis enforcement.
 - As of 2020, at least 23 states and the District of Columbia have implemented cannabis conviction expungement and other ways to relieve past cannabis records.⁵⁹
 - Social equity programs have been implemented in some states. Six states and some localities have taken initiative to ensure that communities disproportionally affected by previous cannabis laws can participate in the legal cannabis industry. ⁵⁹
 - On October 6, 2022, President Biden announced reforms on federal cannabis policy to pardon those that were convicted of simple cannabis convictions at the federal level and urged state governors to follow suit.⁶¹

- Inhalers Inhalers containing THC.⁷¹
- Edible/Gummies Food that contains THC and/or CBD.⁷²
- Oils Oil extracted from cannabis to get THC. Oils tend to be more potent since they are more concentrated.⁷³
- Wax Wax is extracted from cannabis through butane or hydrocarbon extraction, creating a potent concentrate.⁷⁴
- Shatter The extraction process is similar to wax, but shatter has a hard, glass-like consistency, whereas wax is more soft and malleable.⁷⁵
- Tinctures (product dissolved in alcohol) Cannabis-infused alcohol.⁷⁶

VAPING CANNABIS ON THE RISE

Tobacco and cannabis use patterns are evolving, with many of today's teens directly combining the two products. Vaping cannabis (i.e., heating the dried plant and using distillates or an "e-liquid" solution with a battery powered e-cigarette to inhale a vapor)^{77,78} has been increasing.² A study that analyzed data collected between 2005-2014 also shows that odds of cannabis use were higher among youth who had a history of using e-cigarettes.⁶ Given the increase in cannabis legalizations and increase in e-cigarette use, it is likely that vaping cannabis will continuously rise.⁷⁹

In 2022, 6%, 15% and 20.6% of 8th, 10th and 12th graders, respectively, reported vaping cannabis in the last year.⁸⁰ While patterns across states are not fully known, individual states have reported varying levels of the use of vaping devices for cannabis. For example, about 1 in 4 high school students in California and North Carolina and 1 in 5 high school students in Connecticut reported vaping cannabis.^{17,81,82} Among college students the numbers are even higher, with 29% reporting ever vaporizing cannabis products.⁸³

Is cannabis a gateway drug?

There is a lot of debate on whether cannabis is a gateway drug. There are studies that find that regular or heavy cannabis use is associated with an increased risk of using other illicit drugs,¹ although this link may be because users of all of these substances share common risk traits (e.g., sensation seeking).⁵ It is also theorized that any substance that decreases reactivity of brain receptors can lead to addiction vulnerability.⁷ On the other hand, a 2022 study has found that cannabis use may not be a gateway drug for other illicit drug use.¹² That said, the majority of people who use cannabis do not go on to use other "harder" substances.¹³



Odds of cannabis use were higher among youth who had a history of using e-cigarettes.

Recent reports of lung injury due to the use of e-cigarettes (EVALI – E-cigarette and Vaping Associated Lung Injury) have linked vaping cannabis with lung illnesses.⁸⁴ As of February 18, 2020, there have been 2,807 reported cases and 68 deaths related to EVALI. The Centers for Disease Control and Prevention identified vitamin E acetate as a significant concern in the outbreak, finding the chemical in 48 of 51 EVALI samples it had analyzed from victims. Vitamin E acetate is harmless when ingested or applied topically, but it can affect normal lung functioning when inhaled. The CDC advises that people do not use e-cigarettes or vaping products containing THC from non-regulated markets including friends, family, or in person or online dealers.⁸⁵

CONNECTION BETWEEN THE CANNABIS INDUSTRY AND TOBACCO INDUSTRY

The tobacco industry sees cannabis as a both a potential competitor as well as a potential product. Big Tobacco has previously shown interest in the legal cannabis business and recently, multiple tobacco companies have invested in cannabis companies.⁸⁶ Big Tobacco has also supported pro-cannabis groups that lobby for legalization.⁸⁷

- Imperial Brands has a 20% stake in AuxlyCannabis⁸⁸ and acquired a stake in the biopharmaceutical company Oxford Cannabinoid Technologies.⁸⁹
- Altria (the maker of Marlboro) acquired a 41% stake in Cronos Group, a cannabis research and product development group in March 2019.⁹⁰
- British American Tobacco acquired almost 20% of Organigram, a Canadian cannabis research company.⁹¹
- Philip Morris International invested \$20 million in the Israeli medical cannabis company Syge Medical.⁸⁷
- A joint venture between BAT's subsidiary AJNA BioSciences PBC and Charlotte's Web, which BAT invested in last year, plans to seek approval

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from the FDA for a treatment made from hemp extract. AJNA invested \$10 million in the deal. Charlotte's Web and AJNA each own 40% of the entity, while BAT controls the remaining stake, according to a statement.

- Even though the cannabis industry faces hurdles, tobacco companies are increasingly investing in the sector to move away from legacy tobacco products, like cigarettes, that have experienced declining demand. BAT has also put money into OrganiGram, a Canadian cannabis firm, and German cannabis company Sanity Group, joining Snoop Dogg's Casa Verde Capital.
- The tobacco industry may have an interest due to "the functional similarities of cannabis production; its use with tobacco roll-your-own (RYO) cigarettes; the ability to extract its active ingredients for use in e-cigarettes (THC and CBD), and its medicinal potential."⁸⁷
- Concerns have been raised that cannabis companies will target the same communities that were targeted by Big Tobacco.⁹²
- CBD is becoming more prevalent in vape shops and online vape retailers as there are a growing number of restrictions that prevent e-cigarette products, especially those that come in flavors, from being manufactured, marketed, or sold. A study found that 73.3% of merchants in the study sold CBD vape products and 80% sold other CBD products. Vape shops also sell CBD products like cannabis glassware, pipes, and accessories.⁹³

MORE RESEARCH NEEDED ON BENEFITS OF MEDICINAL CANNABIS

Despite the increasing number of states that have legalized cannabis for medicinal purposes, there is little evidence that points to specific medicinal benefits of cannabis. While users anecdotally report several medical benefits from cannabis, such as improved sleep and decreased anxiety, studies to date show mixed results for medicinal cannabis use, including:

- Moderate evidence for the treatment of chronic pain, spasticity in MS patients.^{96,97}
- Mixed evidence for the treatment of glaucoma.^{98,99}
- Some evidence of improvements in nausea and vomiting due to chemotherapy, alleviation of fatigue, anxiety, and increased appetite for people with HIV/AIDS, and a reduction in anxiety and sleep disorders.^{97,100,101}
- Clinical research on cannabinoids for alleviating motor and nonmotor symptoms in Parkinson's disease, Huntington's disease, Tourette's syndrome, dystonia, and other movement disorders are currently underway.^{102,103}

Cannabis use disorder

- Cannabis use disorder is characterized by symptoms such as intense cravings, an inability to stop/reduce use or continuing use despite negative consequences.⁹⁴
- Symptoms, ranging from mild to severe, can significantly impact a person's quality of life and their ability to function.⁹⁴
- Around 4.4 million people (age 12 and older) had cannabis use disorder in 2018.⁵⁰
- Around 30% of those who use cannabis may have some degree of cannabis use disorder.⁹⁵



CANNABIS CAN HAVE NEGATIVE IMPACTS — POSING HARM TO YOUTH

Research has consistently found cannabis can have lasting impacts on the adolescent brain, which is still developing until around age 25.

Disruption of brain's architecture

Early use of cannabis by teens and young adults disrupts the brain's architecture, especially among chronic, heavy and early users, resulting in cognitive impairment.¹⁰⁴ Also, exposure to THC during adolescence can impact structural, molecular, and functional alterations of brain circuits, especially in areas involving cognition and behavior.¹⁰⁵

Memory, learning, attention, and impulse control problems

Regular cannabis use in adolescence may have long-term effects. Some studies suggest regular cannabis use in adolescence can negatively impact memory, learning and impulse control.¹⁰⁶ Acute and chronic exposure to cannabis can impair verbal learning, memory, and attention.¹⁰⁷

Connections with mental health

Cannabis use is associated with depression in young adults and is associated with earlier onset and worse symptoms of psychotic illness, including schizophrenia.⁹⁻¹¹

• Higher dropout rates

Heavy and frequent use of cannabis during the teenage years is also associated with higher high school dropout rates, lower grades and poorer attendance compared to nonusers.^{95,108} Multiple studies have also found that cannabis use can be associated with reduced educational attainment (i.e. reduced chances of graduating).¹⁰⁹ However, it is unclear to what degree cannabis use is directly causing these associations as there may be other factors at play.

Increased traffic deaths

One study found that a larger medical cannabis market size is associated with increased traffic deaths among drivers aged 15-20. It's important to note that this study found that there is a potential synergistic effect between alcohol and cannabis use among youth. They indicate that although cannabis' effect on driver impairment is moderate in comparison to alcohol effects, using cannabis and alcohol together may have an enhanced effect on driver impairment.⁴³

DEPENDENCE IN YOUTH

Youth use may lead to dependence. A study published in 2008 that analyzed data from 2003 found that people who begin using cannabis before age 18 are four to seven times more likely than adults to develop a cannabis use disorder.¹¹⁰



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4 to 7 times more likely than adults to develop cannabis use disorder.

- Nearly 1 in 10 adults who use cannabis will become dependent over their lifetime.¹⁰⁰ The odds of developing cannabis use disorder is higher in people who start using cannabis during youth or adolescence.¹¹⁸
- Frequent use is associated with health risks. Frequent cannabis use among youth (defined as using at least weekly to 20-30 days a month) can be associated with a variety of mental health disorders, health risks, and poor psychosocial outcomes.¹¹¹

PREVENTING YOUTH-APPEALING MARKETING OF CANNABIS PRODUCTS IS KEY

Given the serious consequences of cannabis use on the adolescent brain, it is critical to highlight and regulate marketing practices that may appeal to young people. Like the tobacco industry, which has created products designed to appeal to young users, certain cannabis products may be desirable to underage users. Baked goods, gummies, candy, chocolates, and other flavored cannabis products are frequently sold at legal dispensaries.^{112,113} Illegal distributors have also created products that resemble popular food brands among kids, such as Cheetos, Fruity Pebbles, Sour Patch Kids, and Oreos.¹¹⁴ Creameries across Massachusetts have recently begun selling cannabis-infused ice cream, and snack companies like Guy's Chips are developing cannabis infused potato chips.¹¹⁵

As businesses continue to acquire licensing and approval at the state level to create new cannabisinfused products, public health concerns must be considered. Since business interests push commercialization, strong regulation to prohibit any product branding or marketing that would appeal to youth is paramount. This problem is certain to increase exponentially as tobacco company interests continue to acquire cannabis companies, a phenomenon that is sure to accelerate if cannabis legalization increases in the U.S. Altria, Imperial Brands, and British American Tobacco are some companies that have acquired shares in cannabis companies.⁸⁹⁻⁹¹

FEDERAL CANNABIS POLICY

The federal government has taken varying approaches to drug enforcement throughout our nation's history that have tended to shifted focus from criminal enforcement to prevention and rehabilitation. With the emergence of state laws allowing medical and recreational cannabis, the federal government has had to determine how to respond since cannabis remains illegal at the federal level. A few recent developments are important to note:

- In 2014, Congress passed a provision that prohibits the U.S. Justice Department from interfering in the implementation of state medical cannabis laws. While the provision does not change the federal legal status of cannabis, Congress must renew it every fiscal year to remain in effect and has so far done so.^{116,117}
- > December 2018, the Farm Bill of 2018 expanded pilot programs begun in 2014 to remove hemp from the controlled substances list and established hemp as an industrial product. The Farm Bill defined hemp as the cannabis plant with less than 0.3% of Delta-9 THC and allows hemp-derived products to be sold across state lines.^{20,118} Therefore, any cannabis plant with more than 0.3% Delta-9 THC is considered a Schedule 1 drug subject to the Controlled Substance Act. While this was the first time hemp was descheduled, the law did create some unintended consequences, including the rise of Delta-8 and Delta-10 use, which were not addressed, nor was the regulation of CBD products over 0.3% Delta-8 THC. Congress is currently negotiating the 2023 Farm Bill and it remains to be seen if it will address any of these issues. Hemp products



used as or in drugs, foods, dietary supplements, cosmetics, and veterinary products are subject to FDA regulation under the Food, Drug & Cosmetic Act.¹¹⁹

- On August 29, 2019, in the first surgeon general's advisory on cannabis since 1982, the U.S. Surgeon General issued a formal advisory¹²⁰ stating that cannabis usage can harm the brain development of young people and the fetuses of pregnant women.¹²¹ The advisory provided specific information for parents, youth, state and local governments, and health care providers.
- On October 6, 2022, President Biden announced reforms on federal cannabis policy to pardon those that were convicted of simple cannabis possession crimes while urging state governors to follow suit.⁶¹ This does not apply to those convicted for distributing or selling cannabis. President Biden also called on the Secretary of Health and Human Services and the Attorney General to review cannabis' status as a schedule 1 drug, which puts it in the same tier as drugs like heroin and LSD.³⁴ As part of this review, the FDA has been tasked with evaluating the data and making a recommendation on either rescheduling or de-scheduling cannabis.

- On January 26, 2023, the FDA announced that it will not regulate CBD as a dietary supplement or food stating that it is not apparent how CBD products could meet safety standards for dietary supplements or food additives.¹¹⁶ The FDA stated that they believe CBD requires a new regulatory pathway which would require congressional action. The FDA suggested such a pathway should include measures to address contamination, youth use prevention, labeling, and limits on the amount of CBD in these products.
 - > Nonetheless, the FDA has issued warning letters to firms marketing CBD products with therapeutic claims, concerning routes of administration, egregious Delta-8 THC products and foods for humans and animals with added CBD.

STATE REGULATION OF RECREATIONAL CANNABIS

States that have legalized recreational use of cannabis have taken various approaches to regulating it. Most states that allow cannabis sales have at least some sales and advertising restrictions; however, several states are still determining recreational cannabis regulations and it will be important to monitor these policies as more are put into place.



Some key elements of current state policies include:

- Licensing: All states that allow cannabis sales currently require some sort of license to sell cannabis recreationally.
- Amount: All states that have legalized recreational cannabis have a limit on either the amount someone can possess at any one time, or limits on how much a person can purchase in a single transaction, or both.
- Other substances: All states that allow sales of recreational cannabis prohibit sale of other substances, such as tobacco or alcohol, in cannabis dispensaries. However, there are known concerns with illegal unlicensed cannabis dispensaries despite these policies. In New York City, for example, there are unlicensed stores and smoke shops selling cannabis and tobacco.

However, not all states have adopted some key policies that will protect public health. Some missing elements include:

Clean indoor air laws: As of January, 2023, 890 localities and 38 states, territories, and commonwealths restrict cannabis use in some or all smokefree spaces. Of these, 478 localities and 23 states, territories, and commonwealths prohibit smoking and vaping of recreational and medical cannabis in one or more of the following venues: non-hospitality workplaces, restaurants, bars, and/or gambling facilities.^{122,123} As of January 1, 2023, 10 of 19 states with clean indoor air laws specifically include cannabis in those laws, preventing use of cannabis in most workplaces.¹²⁴ Additionally, Colorado and Nevada have exemptions for cannabis smoking in restaurants in their smokefree laws and Michigan has an exemption for cannabis smoking in restaurants and bars in its smokefree law.¹²⁴

Restricting youth advertising: As of September 20, 2022, 17 of 21 states that allow recreational cannabis sales specifically prohibit advertising content that targets children.¹¹⁰ Despite these restrictions, studies show that some cannabis retailers in states like Washington, Oregon, Alaska, and Colorado emulate Big Tobacco by promoting their products on social media using cartoon characters and branded merchandise.¹²⁵



- Buffer zones: As of September 20, 2022, 12 of 21 states that allow for the sale of recreational cannabis have buffer zones around schools and other child centered locations that restrict where recreational cannabis can be advertised. The distance varies by state, with New Jersey having the smallest buffer zone of 200 feet and Connecticut having the largest buffer zone of 1500 feet.¹²⁶
- Flavors: No states restrict flavors in vaped cannabis. However, several local jurisdictions have included flavored cannabis vapes in their flavored tobacco product restrictions.¹¹⁷

POLICIES NEEDED TO PROTECT YOUNG PEOPLE

As the number of states that have legalized cannabis in some form continues to grow, and as cannabis usage among younger adults surged due to the COVID-19 pandemic,¹²⁷ it is essential to put policies in place that prevent and restrict use among youth. Commonsense regulations, such as minimum age purchasing laws, universal product standards and restrictions on marketing to young people, must be enacted and enforced to minimize youth use and harmful effects on developing brains.

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