Youth Marijuana Use: Current Trends in Marijuana Use & Vaping

MPI Funded by the County of San Diego, Health and Human Services Agency, Behavioral Health Services





Happy to be here!

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Prop. 64 Advisory Board Member

SAMSHA Region 9 PTTC Advisory Board Member







MPI Focuses on Youth Marijuana Use

Why?

- We are funded to work with youth ages 12-25.
- These years are crucial both developmentally and educationally.
- The brain continues to develop until 25.

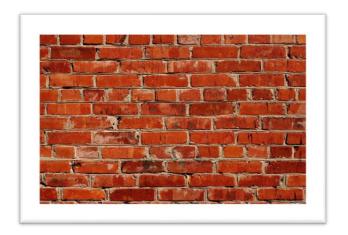




Brick Wall Effect

Confirmation bias – in this world of mass media we undervalue evidence that contradicts our beliefs and overvalue evidence that confirms them. We filter out inconvenient truths and arguments on the opposing side.

As a result, our opinions solidify, and it becomes increasingly harder to disrupt established patterns of thinking.





Weed 101

Marijuana is a bunch of chemicals disguised as a plant!

- The pot/marijuana/cannabis plant has over 400 chemicals. A little over 100 in the cannabinoid family.
- THC is a cannabinoid chemical that is psychoactive.
- CBD is also a cannabinoid chemical that counteracts the THC high.





National Statistics





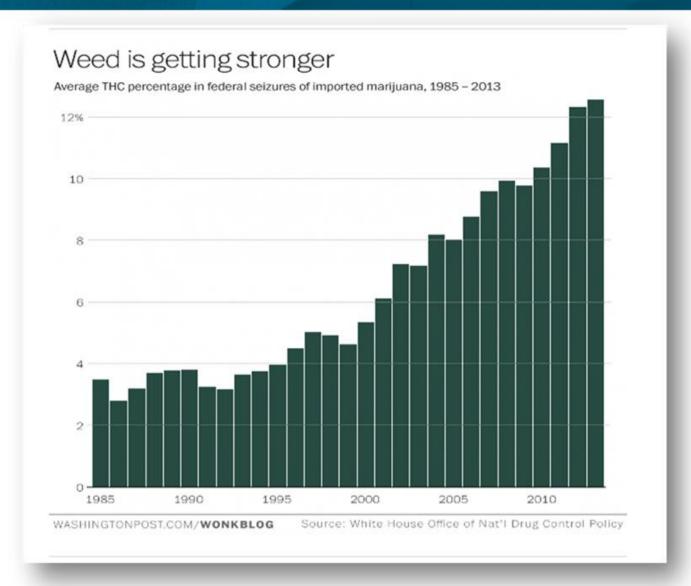
Of Interest

- THC products and vaping devices have never been fully researched to determine health impacts.
- From a national level the FDA does not test marijuana products for human consumption because they have no medical value.
- State by State testing of marijuana is spotty at best!
- Black market products are always available





Highest potency in history





Change in methods of ingestion

In the 1980's marijuana's THC content on average was 5-10%. Mostly herb or plant form **smoked in blunt or bong.**





Today's marijuana potency in herb can be upwards of 25% and oils and waxes 30 - 99%. Eating, vaping, drops/tinctures





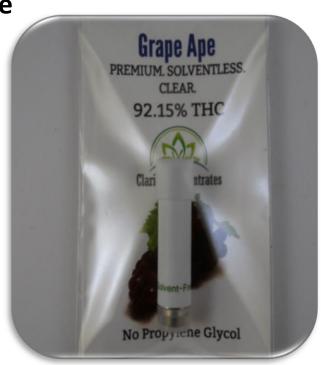




Why is potency so high?

- Increasing potency due to:
 - Big Industries getting involved (Hiring scientists and researchers to make more potent products).
 - Cross breeding
 - Improved gardening techniques
 - Genetic modification of plants
 - Extraction methods
 - Consumption methods (edibles, vaping)





Extraction Process





Concentrates - Wax, Hash Oil, Edibles

(bud containing – 26% THC, concentrates can contain 30-99%)



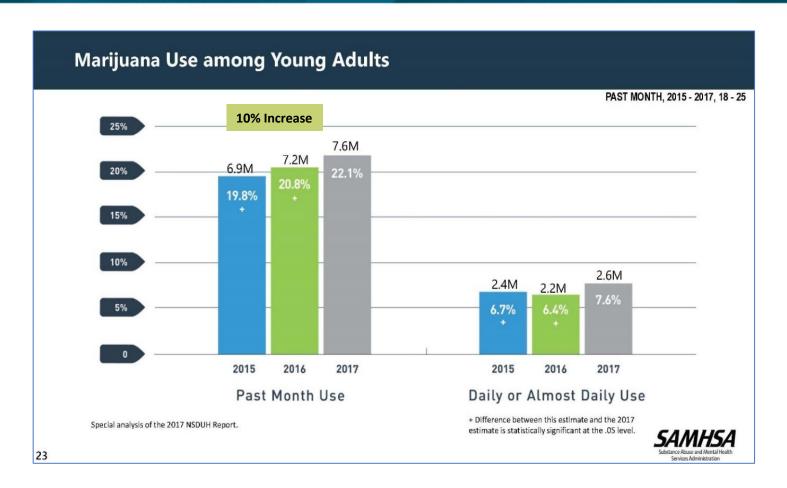






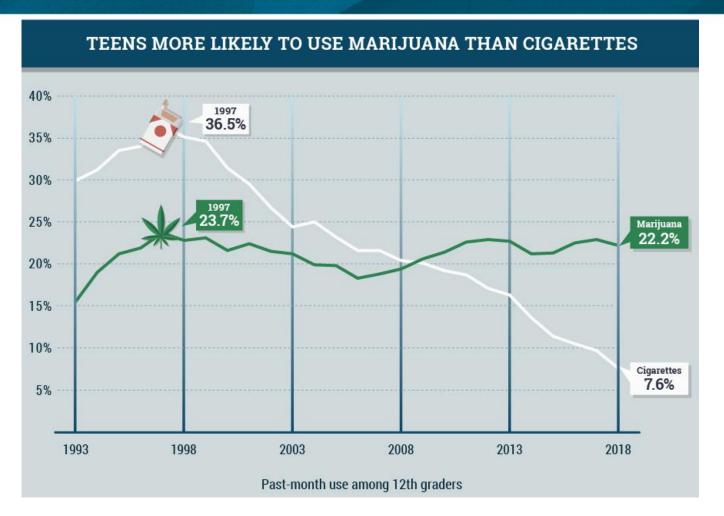


Marijuana Use Has Increased Among Young Adults, Ages 18-25





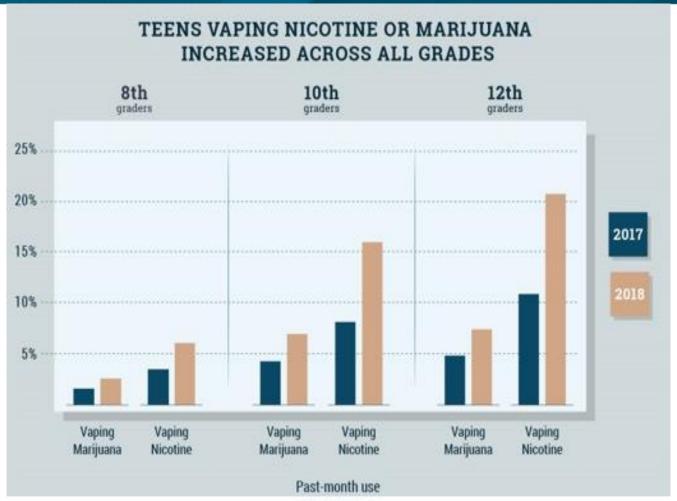
Teens More Likely to Use Marijuana Than Cigarettes





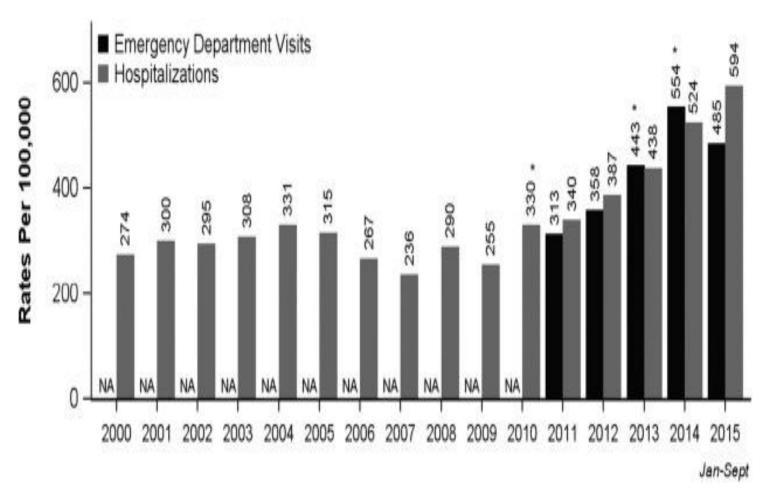
Monitoring the Future 2018 Survey Results Slide credit Dr. Roneet Lev

Vaping as a Method of Marijuana Consumption Is Increasing Among Teens



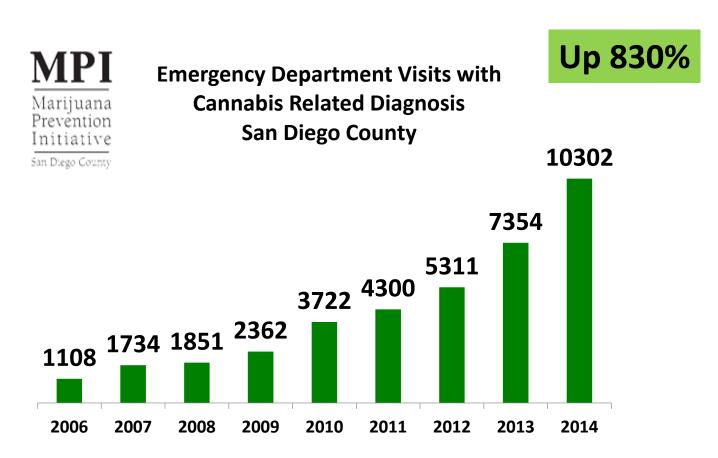


Marijuana-related Hospitalizations and ED Visits Increasing in Colorado





ED Visits for Cannabis-Related Diagnoses Increasing in San Diego County



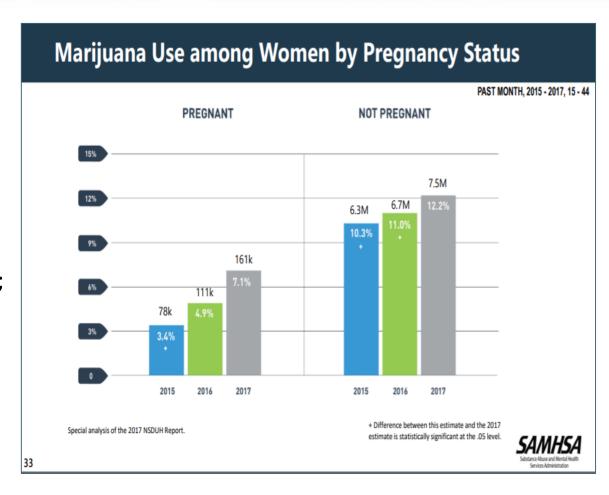


The Center for Community Research prepared this analysis for the San Diego County Marijuana Prevention Initiative with data from the California Department of Public Health, March 2016.

Marijuana Use Is Increasing Among Pregnant Women

 Among pregnant women, marijuana is the most commonly used illicit drug.

 Risks of maternal marijuana use: health issues in infancy; behavioral and cognitive issues through adolescence and early adulthood.





Cannabis Use Disorder

- DSM-5. Diagnostic and Statistical Manual of Mental Disorders (DSM)
- In 2013 added "cannabis withdrawal"
- Americans who reported using marijuana in the past year more than doubled between 2002 and 2013, and the increase in marijuana use disorders during that time was nearly as large.

Cannabis use disorder

Cannabis use disorder, a cannabis-related disorder coded as 305.20 for mild or 304.30 for moderate or severe, is defined by DSM-5 as the following:

- · A problematic pattern of cannabis use leading to clinically significant impairment or distress, as manifested by at least 2 of the following, occurring within a 12-month period:
 - · Cannabis is often taken in larger amounts or over a longer period than
 - · There is a persistent desire or unsuccessful efforts to cut down or control
 - A great deal of time is spent in activities necessary to obtain cannabis,
 - · Craving, or a strong desire or urge to use cannabis.
 - · Recurrent cannabis use resulting in a failure to fulfill major role
 - · Continued cannabis use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of
 - · Important social, occupational, or recreational activities are given up or

 - Recurrent cannabis use in situations in which it is physically hazardous. Cannabis use is continued despite knowledge of having a persistent or cannabis use is commuted despite knowledge of maving a persistent of recurrent physical or psychological problem that is likely to have been
 - Tolerance, as defined by either a (1) need for markedly increased Cannabis to achieve intoxication or desired effect or (2) markedly increased of the office of the cannabis to achieve intoxication or desired effect or (2) markedly cannabis to achieve intoxication or desired effect or (<) markedly diminished effect with continued use of the same amount of the
 - Withdrawal, as manifested by either (1) the characteristic withdrawal Withdrawai, as manifested by either (1) the characteristic withdrawai syndrome for cannabis or (2) cannabis is taken to relieve or avoid



Local Trends Post Prop. 64





Creation of Bureau of Cannabis Control

 Bureau of Cannabis Control – lead agency in developing regulations for medical and adult use and responsible for licensing retailers, distributors, testing labs and micro businesses.

CA Dept. of Public Health - Office of Manufactured Cannabis
 Safety regulating manufacturers of edibles for both medical and non-medical use.

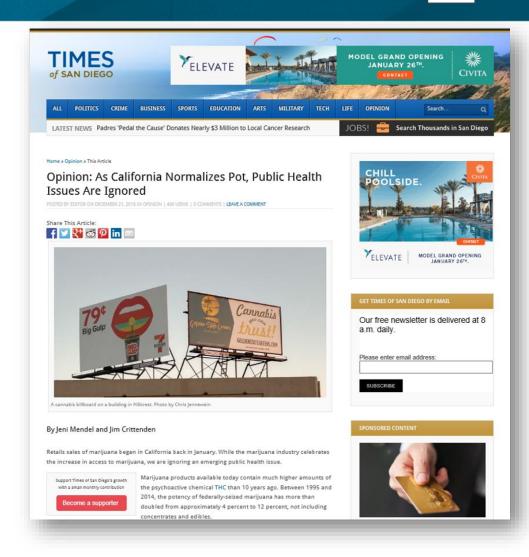
 CalCannabis Cultivation Licensing, a branch of the CA Dept. of Food and Agriculture - develop regulations to license cultivators for both medical and non, track and trace program to record seed to sale through distribution.



Vaping on the Rise

According to NIDA the number of high school students who are vaping has increased: 37 percent of seniors have tried vaping in 2018, compared to 27 percent in 2017.

Why? Vaping companies (Juul) spent millions of dollars marketing to youth on social media.





Why is Vaping so popular?

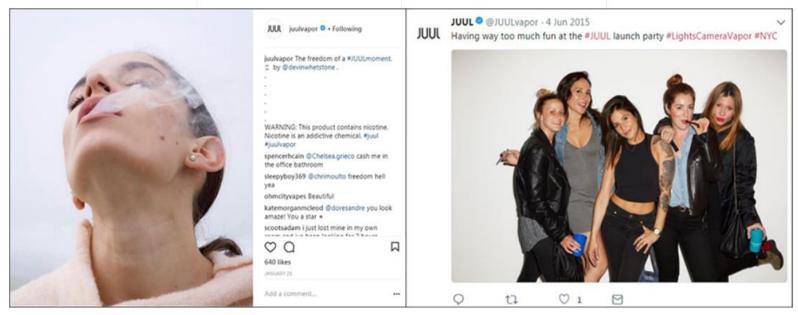






JUUL Marketed to Teens

- JUUL spent millions of dollars for online marketing at its launch in 2015.
- Utilized social media platforms (i.e., Twitter, Instagram, YouTube) to promote company-sponsored ads associating JUUL with being cool, fun, relaxing, and having sex appeal.













Epidemic in 3 years

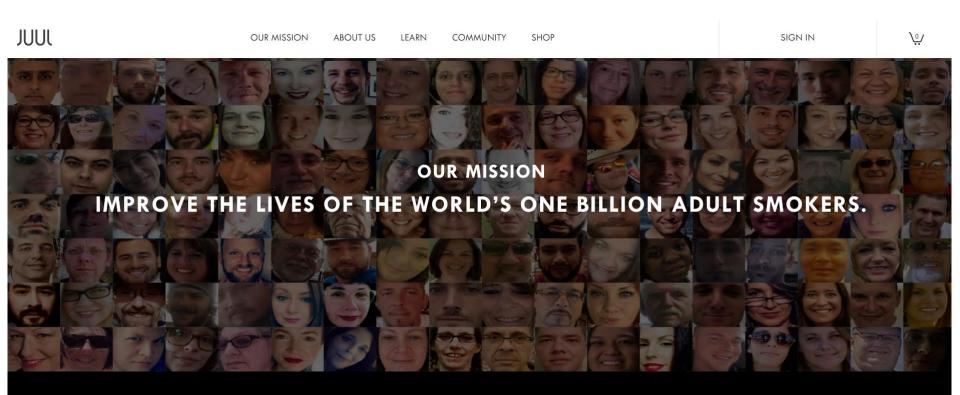
- By 2018 Juuling/vaping was an epidemic among youth
- Under FDA scrutiny Juul suspended Facebook and Instagram accounts on November 13th 2018.







JUUL Advertising Today





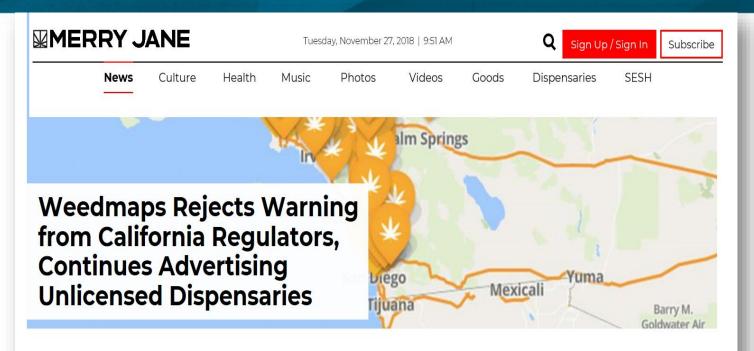
Why were vaping devices allowed to be sold without proper testing?

There's evidence that scientists, regulators and e-cigarette proponents **missed**, **ignored or downplayed** signs that vaping could significantly damage the lungs for nearly a decade, a review of medical literature, government documents and interviews with doctors shows.





Weedmaps



by Zach Harris | NEWS | Mar 13, 2018

Executives at the online dispensary directory said that they are not a California cannabis licensee, and therefore should not be subject to sanctions from California's Bureau of Cannabis Control.

The wild west showdown between California's Bureau of Cannabis Control (BCC) and the popular online dispensary finder Weedmaps continued this week, with





Testing for California pot products

- Mandatory testing of cannabis products effective 7/1/2018.
 - 20% failure rate
- High levels of pesticides, solvents and bacteria, including E. coli and salmonella, according to data provided by the state Bureau of Cannabis Control.





Advertising Near Youth Locations



City Heights Activists Call For More Regulation Of Billboards Advertising Marijuana

Tuesday, June 18, 2019

By Priya Sridhar

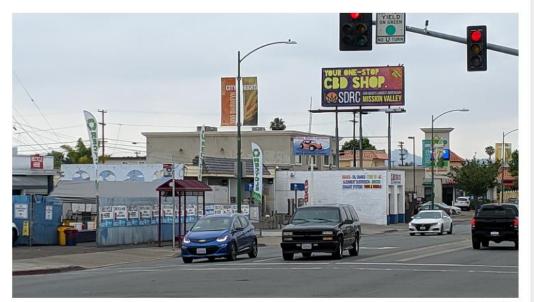


PHOTO BY NICHOLAS MCVICKER

Above: Cars in City Heights drive by a marijuana billboard advertisement on June 18, 2019 in San Diego.



State law prohibits billboards within 1,000 feet of schools, playgrounds or daycares.

"We are not taking away the right to advertisement. We are trying to restrict the right to advertise where our children and communities live, work and play," said Central Region Prevention Coalition.

Illegal Extraction Labs

PUBLIC SAFETY

San Diego hash oil labs growing in sophistication, but who's behind them?





The DEA has taken down at least 20 hash oil labs in San Diego County as of June 2019, including six that have made the news in May when they exploded.

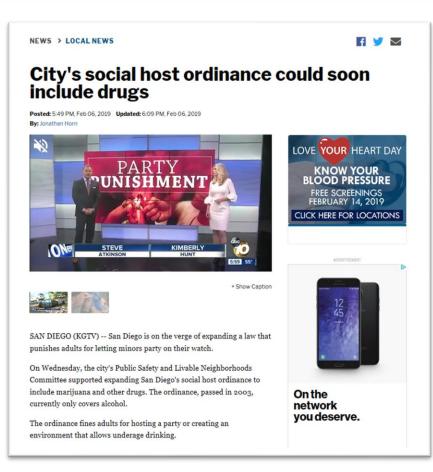
There were 31 found in 2018 and 27 in 2017, according to the DEA.

In CA, 154 extraction businesses are licensed to use butane or other volatile solvents. None of those licensed extractors are in San Diego County.



Social Host Ordinances

- Social Host Ordinances hold adult party hosts accountable for underage alcohol use.
- Amended versions of the ordinance include marijuana and controlled substances.
- Many of San Diego County's cities have adopted the new language.





Where is the local control?

Over 200 delivery services operating even in cities and counties with bans.

Are they properly licensed?

Are they checking ID's at the door???



BREAKING NEWS: 24 Cities Sue California Over Statewide Cannabis Delivery Rule

By Julie Hamill on April 5, 2019

POSTED IN CALIFORNIA, CANNABIS CASE SUMMARIES, LITIGATION

As expected (and as we've written about here), California cities have joined forces to fight the State's regulation allowing delivery of cannabis in every jurisdiction. Here is a copy of the complaint.

The <u>lawsuit was filed</u> in Fresno





CBD on the Market



CBD-infused products are being sold everywhere in California — but are they legal?

By Laura Newberry Los Angeles Times (TNS) 11 hrs ago



LOS ANGELES — Greg and Gary Avetisyan make no secret of it: They proudly sell all manner of products infused with CBD, from essential oils to bath bombs to fruity tealike beverages that promise calming relief in a frantic world.

CBD, short for cannabidiol, is a molecule derived from cannabis. But unlike its chemical cousin THC, it won't get you high. What it might do, according to some research, is alleviate anxiety, seizures, chronic pain and dozens of other ailments.

The Avetisyan brothers' belief in the alleged benefits of the extract is so steadfast that they opened California's first CBD-only store, Topikal, in Tarzana last year and opened a second along the Venice Beach boardwalk in April.



In the eyes of California, however, the Avetisyans' products are being sold illegally, even though they are non-psychoactive.



Trending



The cutting-edge technology that will change the future of farming

Tim Romars-I as bicks off a



Can you trust the label?

How do you know the product has CBD in it?

Can you trust the label?

THC is often present in products claiming to be pure CBD.

In some products labeled CBD, no amounts of CBD were

present.





FDA Actions – Letters sent

Unproven Claims

- Combats tumor and cancer cells;
- CBD makes cancer cells commit 'suicide' without killing other cells;
- CBD ... [has] anti-proliferative properties that inhibit cell division in certain types of cancer.
- Non-psychoactive cannabinoids in pot may be effective in treating breast cancer."





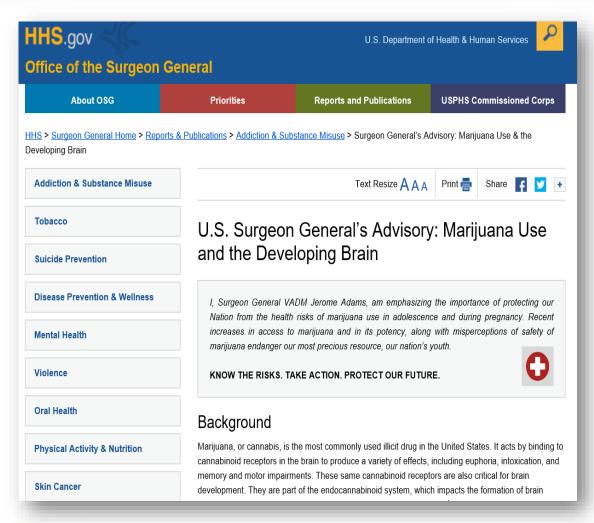
New FDA Approved CBD-Based Medicine

 The drug, Epidiolex, is derived from cannabidiol (CBD), one of the hundreds of chemicals found in the marijuana plant, and contains less than 0.1 percent of tetrahydrocannabinol (THC), the psychoactive component that makes people high.

 The drug's approval permits its use in patients aged two years and older with Dravet Syndrome (DS) and Lennox-Gastaut Syndrome (LGS), rare childhood-onset forms of epilepsy that are among the most resistant to treatment.



Surgeon General Statement- August 2019



"No amount of marijuana use during pregnancy or adolescence is known to be safe."

Until and unless more is known about the long-term impact, the safest choice for pregnant women and adolescents is not to use marijuana.



Marijuana-Involved Opioids Deaths

SD Medical Examiner cases 2016:

 THC was found in 25.8% (125 out of 484) accidental overdose deaths.

 THC found in 25.2% of prescription drug overdose deaths, more than any single medication, and a higher association than benzodiazepines.



Everyone wants a piece of the industry!

MARIJUANA INVESTOR WIRE

CBD Drinks

CBD-Infused Alcoholic Beverages Banned in California (HarrisBriken)

By Editor, MSR - November 21, 2018



















When the Makers of Marlboro and Corona Get Into Marijuana







The California Revenues



- State excise tax imposed on recreational pot (15% State Marijuana tax plus the regular State Sales Tax, local taxes) not on "medicinal" pot products.
- 2018 CA. Marijuana Revenue **\$2.5 billion** this is lower than the Governor projected in his State budget.
- **21 million** going back to prevention and education in 2019.



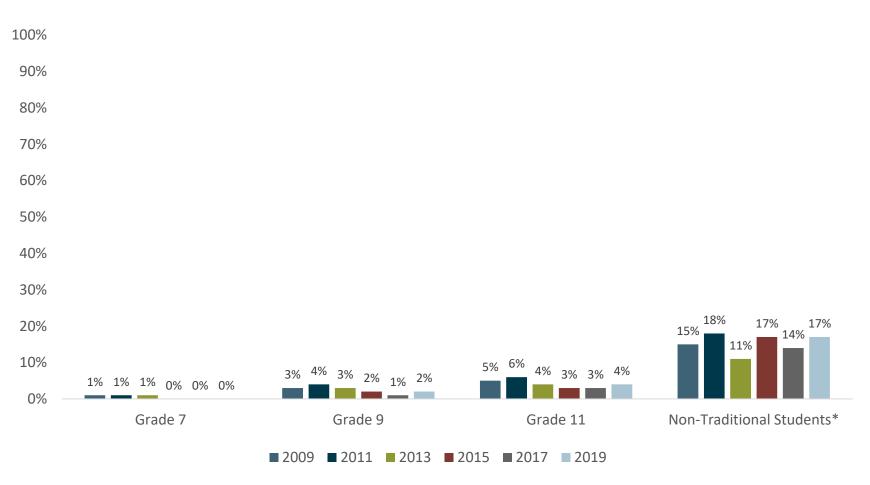
Local Data





Daily Marijuana Use Among San Diego County Youth:

% of students reporting smoking pot 20 or more times in the past 30 days

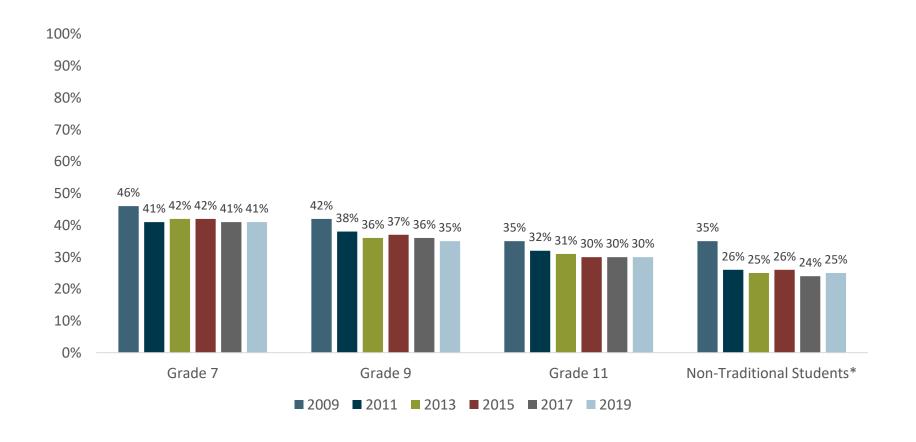


*The response rate for non-traditional students participating in the 2013 Survey was lower than in 2009, 2011, 2015, 2017 and 2019 which may in part account for the decrease in ease of access rates among this population in 2013.



Perception of Harm Among San Diego County Youth:

% OF STUDENTS REPORTING PEOPLE GREATLY RISK HARMING THEMSELVES PHYSICALLY OR IN OTHER WAYS BY USING MARIJUANA OCCASIONALLY



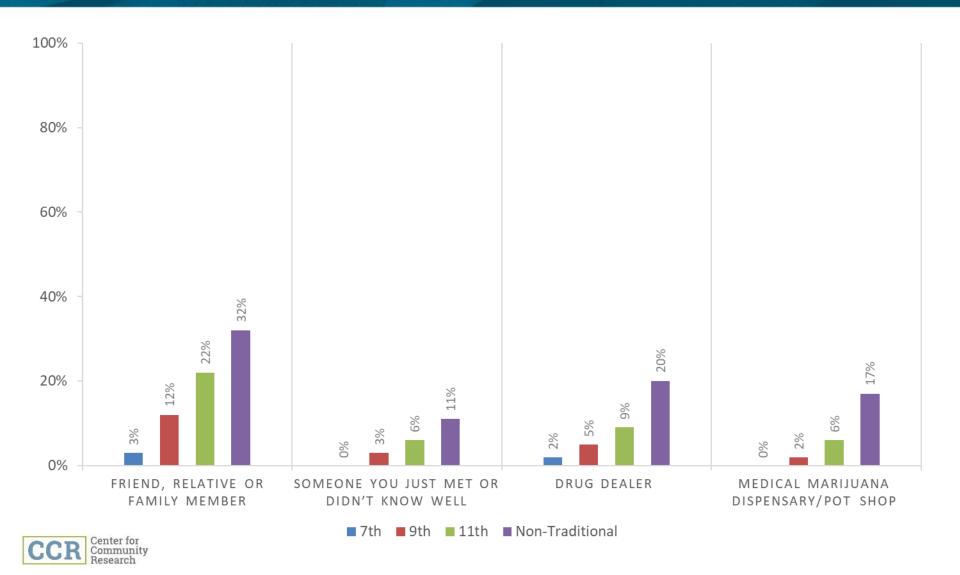


*The response rate for non-traditional students participating in the 2013 Survey was lower than in 2009, 2011, 2015, 2017 and 2019 which may in part account for the decrease in ease of access rates among this population in 2013.

Source: CHKS Main Reports, San Diego County: 2009 - 2019

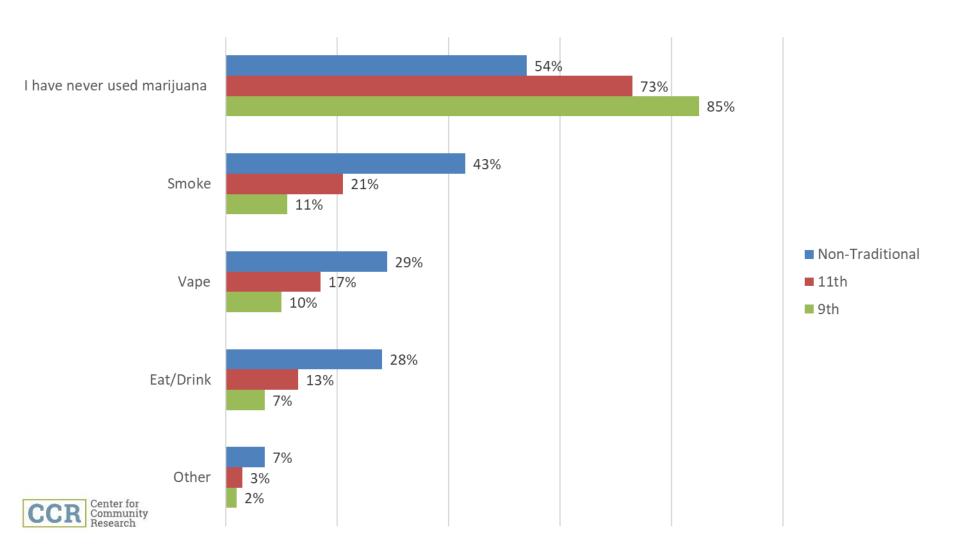
Access to Marijuana Among San Diego County Youth:

Where youth are accessing marijuana – top four mentions

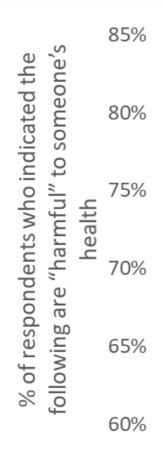


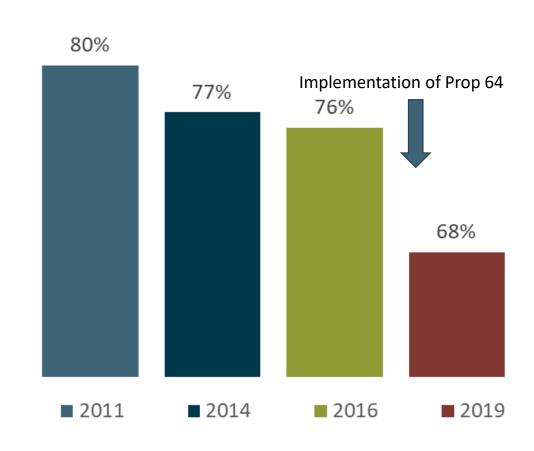
How Youth are Using Marijuana - San Diego County

If you ever used marijuana or concentrated marijuana, how did you consume it?



Perception of Harm: Frequent Marijuana Use SD Community Survey





12% decrease

in perception

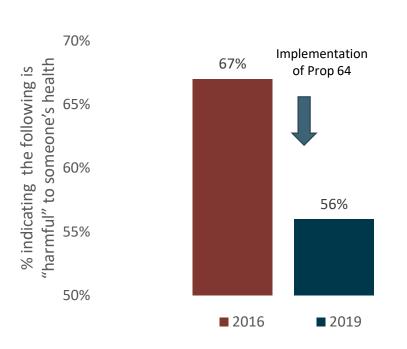
of harm





Perception of Harm: Edible Marijuana

Survey item: Eating edible marijuana food products.





3 out of 4 San Diegans believe using marijuana (smoking vaping, etc.) if a person is under 21 is harmful to someone's health.





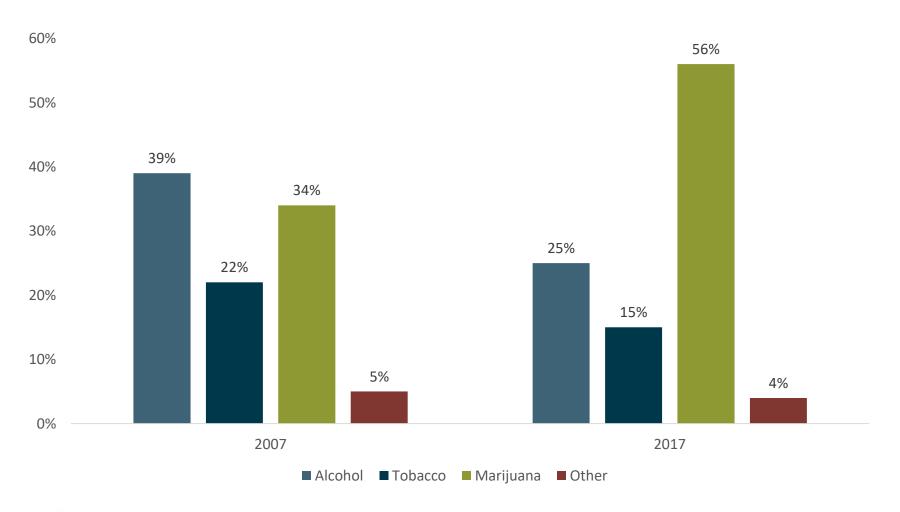
SANDAG Juvenile Arrestees Data - 2017

- Biannually, SANDAG staff conducts interviews with a sample of adults and juveniles arrested and booked into the San Diego County detention facilities. After a confidential interview about their drug use, SAM participants are asked to provide a voluntary and anonymous urine sample for drug analysis.
 - 301 Adults surveyed
 - 77 Juveniles



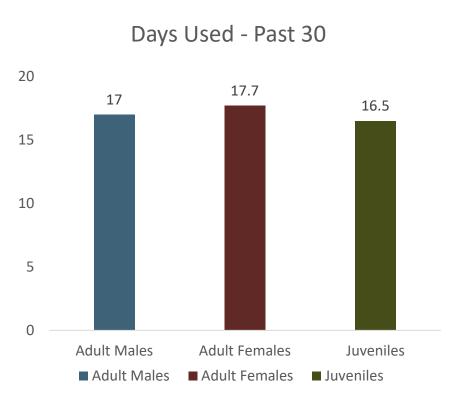


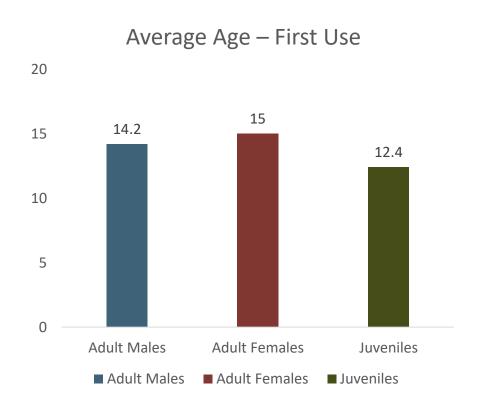
Juveniles More Likely to Report Marijuana as First Drug They Tried - SANDAG





Marijuana Use Starts Early and Recent Use is Frequent

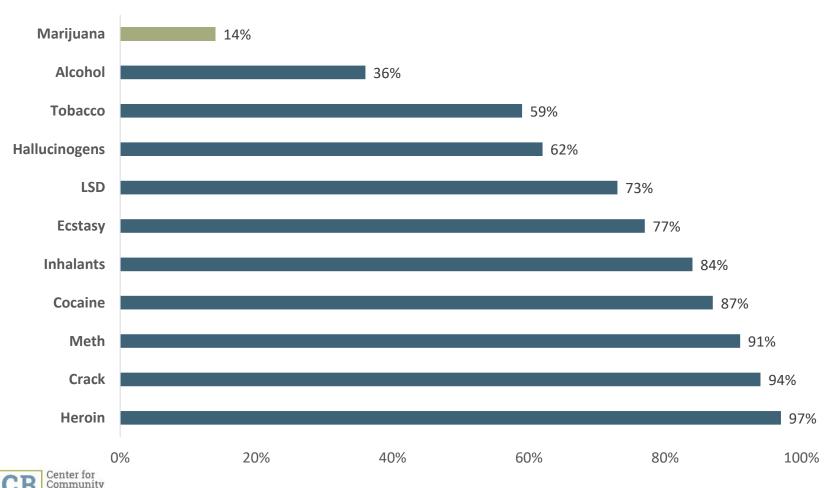






Most Juveniles Don't Perceive Marijuana as Potentially Harmful to Users

Percent that Think Drug is "Very Bad" or "Bad"



SD County Treatment - 2018

- Marijuana is the primary drug of choice for youth ages (12-17) in SD County drug treatment.
- Higher use rate than alcohol for this age group.
- Treatment providers observing higher level THC ratios in urine drug tests.

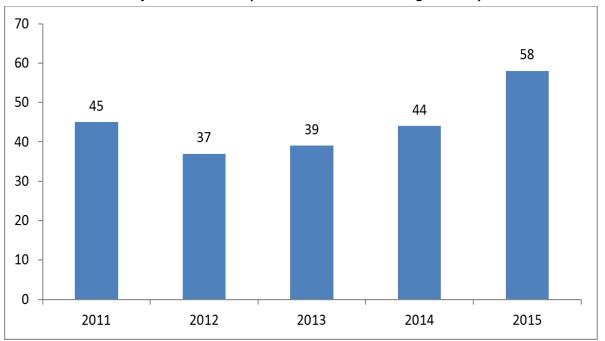




Poison Control 2011-2015

 Increases in the number of marijuana exposure cases from 2011 - 2015





^{*}Timeframe for 2011-2014 is from January-December; timeframe for 2015 is from January-November.

Source: California Poison Control Center, personal communication (March 2015).



Marijuana's Effects

Pot is associated with a range of side effects:

- Panic attacks
- Seizures
- Hallucinations
- Psychosis
- Sedation
- CH syndrome
- Dry mouth
- Heart palpitations
- Cognitive impairment and slower reaction times

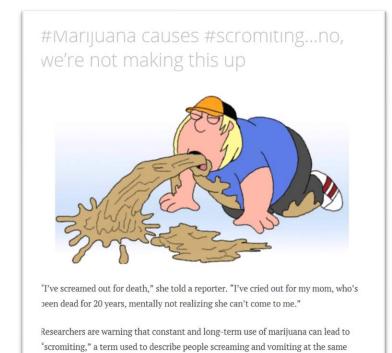




Top 3 Reasons For ER Visits

The most common reasons of seeing marijuana poisoning in the ER:

- 1. Cannabinoid Hyperemesis (CH)
- 2. Psychosis
- 3. Chest pain





Scromiting Video





New CH Treatment Guidelines

- New treatment guidelines published here: https://escholarship.org/uc/item/59z5q826
- Treatment should focus on the need for cannabis cessation.
- Capsaicin is a readily available topical preparation that is reasonable to use as first-line treatment.
- Emergency physicians should avoid opioids if the diagnosis of CHS is certain and educate patients that cannabis cessation is the only intervention that will provide complete symptom relief.



Edibles







Edible Effects

- After ingestion of an edible there may be no effect for 30 to 60 minutes (on a full stomach may take nearly two hours to feel full effects).
- The high can last **4 to 8 hours** while the effects from smoking can wear off in an hour or less.
- Edibles can be very potent!







Labeling

1. The identity of the product in a text size reasonably related to the most prominent printed matter on the panel, and the words "cannabis-infused" immediately above in a text size larger than the text size used for the identity of the product.

2. The universal symbol below, printed conspicuously and legibly, not less than a half-inch by a half-inch.

3. Net weight or volume of the contents.



4. THC and CBD content of the package, as well as the THC and CBD content per serving, all expressed in milligrams.



Mental Health





THC and Mental Health

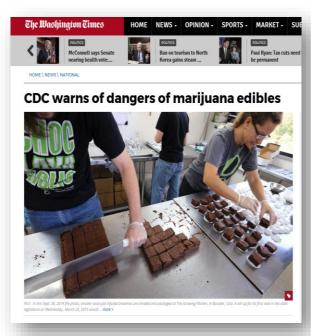
- Studies have shown that THC can awaken pre-existing mental health issues in people with a genetic history of mental health issues.
- Specifically, psychosis related to schizophrenia.
- Paranoia, anxiety, panic, hallucinations and delusions are some possible side effects.





CDC Warning-Psychotic Episode Risk

- College student ate an entire marijuana cookie that had been purchased from a licensed and legal pot shop in Colorado, despite the clerk having advised that it be split up and consumed in small portions.
- Soon after he began to exhibit what witnesses described as erratic behavior, then, the Denver coroner's report, "The decedent eventually reportedly jumped out of bed, went outside the hotel room and jumped over the balcony railing."
- The coroner acknowledged at the time that marijuana intoxication was a contributing factor.





A Break from Reality

Several studies have found that more frequent use of pot is associated with a higher risk of psychosis or losing touch with reality.

Consuming pot on a daily basis and especially using high-potency products increases the odds of having a psychotic episode.



Cannabis-Induced Psychosis: A Review





Schizophrenia

Marijuana use and schizophrenia: New evidence suggests link

Written by Yvette Brazier

Published: Monday 26 December 2016









A new study, published in *Psychological Medicine*, has added to the body of evidence pointing to a link between schizophrenia and the use of cannabis.

Recent research suggests that not only are people who are prone to schizophrenia more likely to try cannabis, but that cannabis may also increase the risk of developing symptoms.

Studies show that cannabis use is more common among people with **psychosis** than in the general population, and that it may also increase the risk of psychotic symptoms.

Its use has been linked to symptoms of psychosis, such as paranoia and delusional thinking, in up to **40 percent** of users.

Earlier this year, scientists <u>warned</u> that young people who use cannabis could be putting themselves at risk of psychotic disorders. People with schizophrenia appear to have a higher chance of experiencing psychosis if they use cannabis.



New research finds that people with schizophrenia are more likely to smoke cannabis.

Previous warnings had voiced concerns regarding the particularly powerful strains of cannabis, such as "skunk," currently circulating among young people.



THC And Pregnancy...

- Pregnant women use marijuana more than any other illicit drug. In a national survey, marijuana use in the past month among pregnant women doubled (3.4% to 7%) between 2002 and 2017.
- Maternal marijuana use dangerous to the baby after birth. May affect the newborn's brain development and result in hyperactivity, poor cognitive function, and other long-term consequences.
- THC can be present in breast milk up to six days after last use.





Marijuana & School Campus

News > Education

California Assembly OKs medical marijuana on K-12 campuses







By ASSOCIATED PRESS

PUBLISHED: August 27, 2019 at 6:41 am | UPDATED: August 27, 2019 at 6:43 am

SACRAMENTO — California schools may soon allow parents to administer medical marijuana to their children on K-12 campuses.

The California Assembly approved a bill Monday that lets school boards decide whether parents can administer medical marijuana on school campuses. It would allow the use of marijuana in non-smoking form.



Administration of Marijuana On School Property

As laws change and access to marijuana products increase, the topic of school staff storing or administering non FDA approved Schedule (1) marijuana to students may be an issue California educators, staff, nurses will have to address. Proposition 64 took effect November 2016, allowing adults 21 and over the ability to possess and grow certain amounts for personal use. No public consumption is allowed. Any recent changes to marijuana policy will have no affect regarding use on campus both medically and recreationally. Here is why!

Items to Consider?	Facts
What were the protocols on campus post prop. 215 – 1996	Most Schools are Federal Property and receive Federal funds. Marijuana is classified federally as a Schedule (1) drug meaning "it has no
CA Compassionate Use Act?	medical value and high propensity for abuse". Therefore there should be no product stored or dispensed on school property. FDA approved
Were you trained to	marijuana medicines do exist - see line 3. These may be allowed. Federal
administer marijuana/products in medical school?	law supersedes State law.
	2- Non FDA approved dispensary marijuana (wax, oils, edibles, CBD oil)
Where did the products come from and who tested it for	are <u>recommended</u> not prescribed; and are a Schedule (1) drug.
safety?	3- Marijuana derived medicines are in pill or spray form and
	prescribed they are Schedule (3) drugs and are FDA approved
Are they prescribed by a doctor, where is the	(dronabinol, sativex, nabilone, marinol etc.)

"Jojo's Act – Allows non FDA approved marijuana on K-12



Marijuana in the Workplace

THIS IS A
DRUG-FREE
WORKPLACE

According to the Journal of American Medical Association, individuals who test positive for marijuana have 55 percent more industrial accidents. Plus, they have 85 percent more injuries and 75 percent more absenteeism.

- An employer can declare there workplace drug and alcohol free.
- As an employee, failing a drug test can get you fired on the spot.
- And yes, this applies to doctor-directed medicinal cannabis. It may be tested in courts.



Vaping









Vape Mist

- Vape mist consists of propylene glycol, largely responsible for making your breath look like a cloud of mist, is also found in fog machines has been linked to chronic lung problems among stagehands.
- May also contain lead, nickel, tin, and silver from the machinery inside the devices along with formaldehyde, manganese, toluene. (Linked to Cancer)
- May contain other oils, pesticides and chemicals that when heated up and inhaled may be harmful to health. (ie. Recent Vaping Illness)



County Office of Ed Policy

 January 2017 E cigs fall under tobacco use on school campus and CA. Dept of Education required to update policies to include electronic devices.

 Penalty is same as tobacco use, referral to intervention program, second offense up to district could be a suspendable offense after a few times.





Challenges with Vaping

- You can vape, dab, a variety of substances with virtually no odor.
- Produces stronger drug effect when combined with THC.
- Hard to test the device for verification of substance.
- Explosion risks with some devices! (lithium-ion battery)





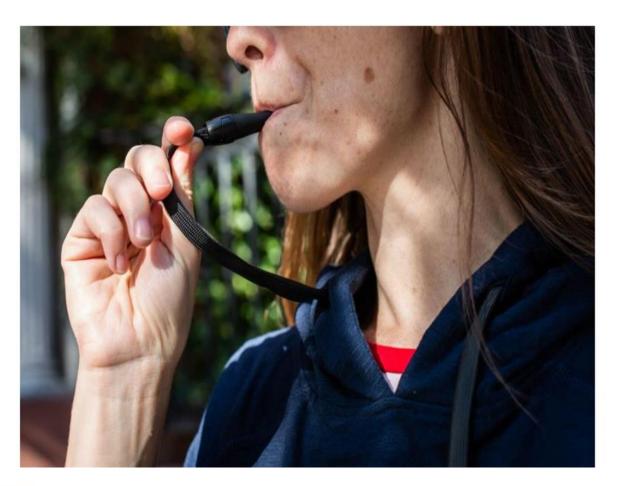
Vaping Devices

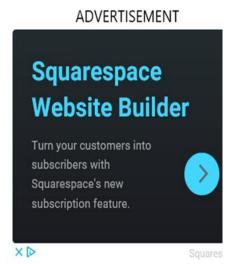




Los Angeles Times

Hoodies, watches and other camouflaged vaping devices confound parents, schools





LATEST BUSINESS >

BUSINESS

Mexico closed its tourism board, so tourist hot spots are going DIY

Sep. 23, 2019



E-liquid danger

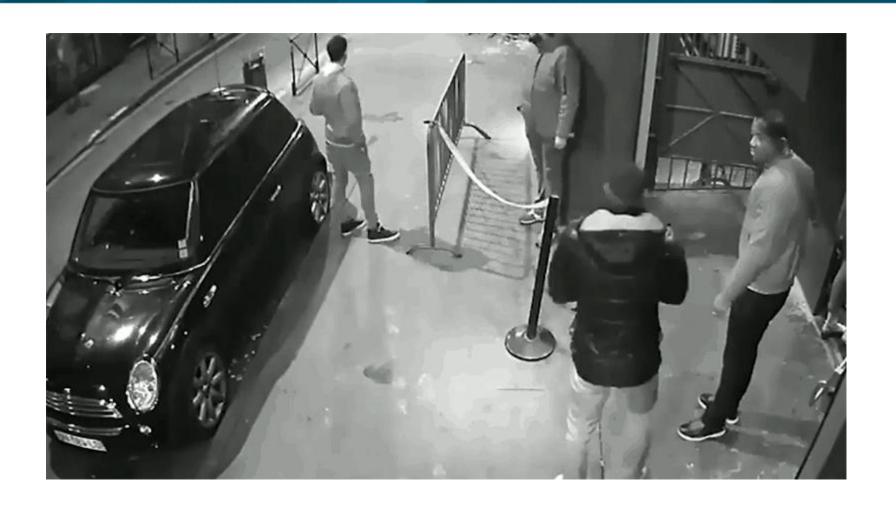
The E-liquids contain few ingredients most notably, **nicotine**. The high concentration of nicotine that can be consumed all at once if orally ingested makes them a **potentially** hazardous material.

POISON

The e-liquids may be seen as a tasty treat to young children; e-liquids are small and come in appetizing looking flavors and packages that can look like candy to a young eye.



Vaping Explosion





Injuries









E-cigarette explosions prompt three lawsuits in California





In Case You Missed It



A 16-Year-Old Teen Suffered Second Degree Burns When an E-Cigarette Exploded in His Face







E-cigarettes are all the rage these days, as the grim fates of chain smokers make traditional drags increasingly unpopular. But as researchers continue to look into whether the e-cigarette presents the same risks as its predecessor, it would seem there's another horrifying hazard e-cigs pose that cigarettes never did: explosions.

Such was the fate of 16-year-old Ty Greer, a teen in Alberta, Canada, who suffered second degree burns and broken teeth after his e-cigarette spontaneously exploded just inches from his mouth while he was using it in his car.

"It lit my kid's face on fire, busted two teeth out," Perry Greer, Ty's father, told the Canadian Press. "It burned the back of his throat, burned his tongue very badly. If he wasn't wearing glasses, he possibly could have lost his eyes. ... He wanted to die. That is how much pain he was in.'







Vaping Marijuana

Vaporized marijuana results in stronger drug effects and higher peak concentrations of THC in blood, compared with equal doses of smoked marijuana.

This increases the active metabolite Delta 9 THC; the psychoactive chemical.







Source: Acute Effects of Smoked and Vaporized Cannabis in Healthy Adults Who Infrequently Use Cannabis - JAMA 2018



Stiizy – Juul for Pot













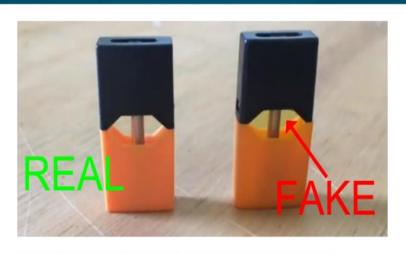
Products from outside the U.S.

Many countries produce JUUL "like" products that look very similar to actual JUUL brand.

Many have unknown ingredients and no product testing standards.









Late June 2019 – Vaping Related Respiratory Illnesses reported

8 WISCONSIN TEENS HOSPITALIZED WITH SEVERE LUNG DAMAGE DUE TO VAPING, DOCTORS SUSPECT ⊞□



Eight teens were hospitalized in July with seriously damaged lungs in Wisconsin, the...

Posted: Jul 28, 2019 7:13 AM Posted By: CNN



Eight teens were hospitalized in July with seriously damaged lungs in Wisconsin, the state Department of Health Services reported Thursday.

"We suspect that these injuries were caused by vaping," said Dr. Michael Gutzeit, chief medical officer at Children's Hospital of Wisconsin where the teens were admitted, at a press conference.

Their symptoms, including cough, shortness of breath, and fatigue, worsened over days or weeks before the patients arrived at Children's Hospital. Some reported fever, anorexia, chest pain, nausea and diarrhea. Scans and X-rays showed inflammation or swelling throughout



By Aug. 27, 2019, 215 cases in 25 states.

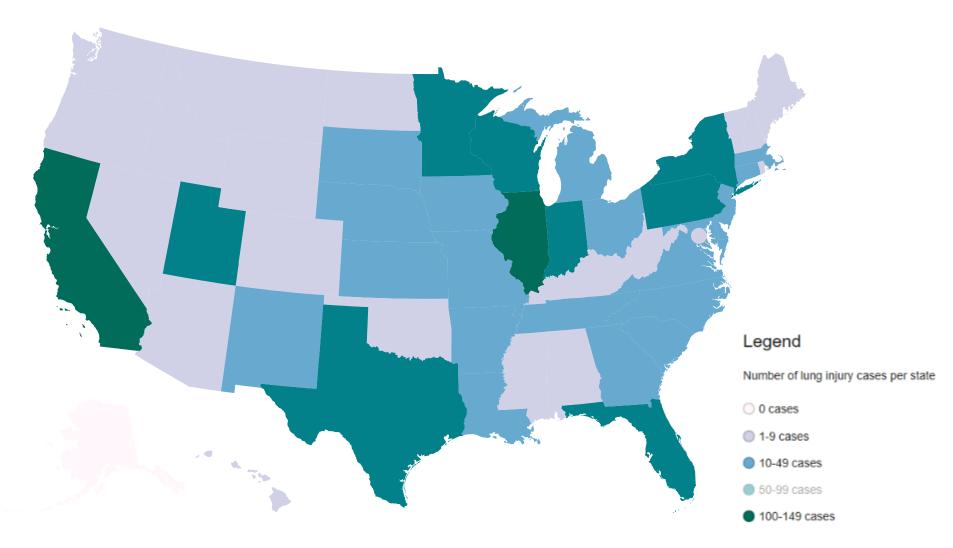
Patients reported a gradual start of symptoms, including:

- Breathing difficulty
- Shortness of breath
- Chest pain
- Mild to moderate gastrointestinal illness including vomiting and diarrhea
- Fevers or fatigue.

In many cases, patients have also acknowledged recent use of e cigarette-cartridges containing tetrahydrocannabinol (THC).



Number of Lung Injury Cases reported to CDC as of October 8, 2019 (N = 1,299)



Source CDC. Downloaded 10/14/19 from: Slide credit Dr. Eric McDonald https://www.cdc.gov/tobacco/basic_information/e-cigarettes/severe-lung-disease.html

Vaping Respiratory Illness Data

33 deaths as of October 15, 2019

- Over 1000 hospitalized Nationally and 25 locally.
- About 85% of individuals have reported using THC cartridges.
- Average age of patients is 23.
- No uniform testing for product safety!



How long has this been around?

- Doctors are calling it E-cigarette, or vaping, product use associated lung injury (EVALI)
- May have been occurring for a long time but there was no way to report it.
- No ICD code at this time for hospitals to document cases and does not fall under FDA jurisdiction.



"Second Hand" Marijuana Smoke

- In Colorado, THC were found in one in six infants and toddlers admitted to Children's Hospital (CHC) for coughing, wheezing, and other symptoms of bronchiolitis.
- As with secondhand tobacco smoke, children can be exposed to the chemicals in marijuana when it is smoked by someone nearby.





What we can do!





GOOD SAMARITAN LAWS

- Do not fear calling 911 if you or friend need help!
- Good Samaritan policies protect the caller and overdose victim from arrest and/or prosecution for simple drug possession, possession of paraphernalia, and/or being under the influence.





When In Doubt – Drug Test!

- If your child is obtaining a driving permit, drug test.
- There are over the counter drug tests available.
- Synthetic drug testing is more expensive but available.









Test Swab Vape Device

The marijuana test kit is so small and simple and it detects pot right away.

The kit uses test strips and a pre-treated swab that detect THC, the active ingredient in marijuana.



https://www.s2detect.com/marijuana-test-kit-mtk



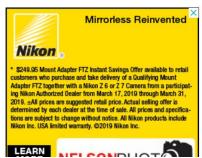
Watch the **MTK** in action - Detect Marijuan in Edibles



Drager Drug Test 5000

San Diego police go after drugged drivers with new mouth swab test







The machine tests for the presence of seven drugs — marijuana, cocaine, opiates, methamphetamine, amphetamine, methadone and benzodiazepines. The device does **not** read the **level of intoxication**; drivers would have to take a blood test for that information. (Cost about \$6000.00)



SD Unincorporated Area - Moratorium

The measure puts a one-year moratorium on the sale of vaping devices and permanently bars flavored nicotine.

County Supervisors Approve Ban On Vaping Products In San Diego's Unincorporated Areas

Tuesday, October 15, 2019

By City News Service, Tarryn Mento







Be a Public Health Educator

Speaking to Youth Groups:

Ask youth – "Do you have addiction in your family"

Share a personal story – become human!

- Know the science, discuss like you are teaching a class.
- Have a positive take away! And allow questions?
- Have resources available for treatment.



Upcoming Summits: Nov 5 - 8

Register Now!

Western States Marijuana Summit

November 5-6, 2019 San Diego, CA Westin San Diego

Topics Include:

- · State Updates
- · The Adolescent Brain
- Educating vs. Lobbying
- · Ecology and Human Safety
- Emergency Department Cases
- Traffic Safety
- Vaping
- National Updates
- · Jail and Prison intake data
- · Extraction Labs and Public Safety
- Psychology of Addiction





Register Here:

Western States Marijuana Summit

\$245 pre-registration \$295 at the door

*Rooms will be available for all attendees at the Government Rate

Westin San Diego



MPI Resources Available

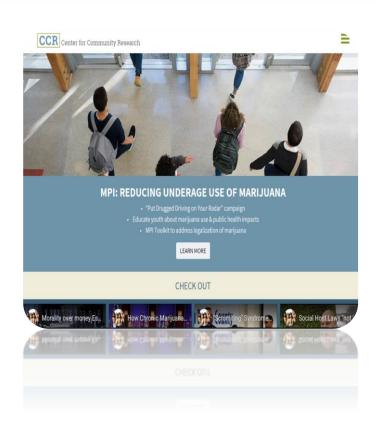
MPI provides TA to prevention groups, schools and civic organizations.

Examples:

- Information and data for download.
- Drugged Driving Campaign
- Check out our MPI Prevention TOOLKIT.

Visit our MPI website & YouTube page:

http://www.ccrconsulting.org/mpi







Questions?



