## CANNABIS USE DISORDER

## ARE HIGH POTENCY PRODUCTS A FACTOR IN CUD?

## Illinois Higher Education Center

February 15, 2023

## We are happy to be here!

## Joe Eberstein, CPS

Director for Center for Community Research, San Diego County Marijuana Prevention Initiative SAMSHA Region 9 PTTC Advisory Board Member

## Patrick Foley, CATC

Treatment Professional and Life Coach with over 20 years experience working with youth in recovery.

## Marijuana in the News

Terms, Potency and Products

Agenda
Trends in Use and Poisonings

Public Health Data

## CUD and Resources

## The terms



SATIVA


INDICA


RUDERALIS

- Weed, general term for any plant growing where it is not wanted.
- Cannabis - genus of flowering plants, sativa, indica and a subspecies known as ruderalis.
- Marijuana - a legal term referring to a portion of the cannabis plant that contains high levels of tetrahydrocannabinol (THC).
- Hemp - Industrial use , very little THC used for rope, clothing, textiles, paper.
- Hybrid - mixing of one or two species.


Is this Hemp or marijuana?

- May look a little different on outside.
- The chemicals inside make the biggest difference.


## THC or Tetrahydrocannabinol

- THC is a cannabinoid chemical responsible for the high.
- These chemicals can be modified to enhance potency.
- Cross breeding, genetic modification and extraction methods are used to increase potency.
- Can interact with prescription medications and driving.



## CBD or Cannabidiol

- CBD counter acts the THC high and does not get you high.
- Can have more of a sedative effect.
- Can also be modified and enhanced.
- FDA approved Epidiolex is a CBD medication used to treat a rare sub-set of seizure disorders.



## This is for legal and tested

 products from licensed businesses!- CA symbol for recreational product.
- The label must list the cannabinoid content in percentages (e.g. THC: 18\%; CBD: 1.5\%). All products must include the THC and CBD content per package. Edibles and concentrates with designated serving sizes must also list the THC and CBD content per serving.


## For more info

https://www.gaiaca.com/california -cannabis-labeling-requirements/

Pot is making people sick. Congress is playing catch-up.
Now that a growing body of evidence says marijuana is bad for you, more regulation is in the offing.


## Marijuana is the news lately

Number of young children who accidentally ate cannabis edibles jumped 1,375\% in five years, study finds
O
fy $=0$


More people uses weed than tobacco in the US, new poll reverala
(CNN) - In just five years, the number of small children in the US exposed to cannabis after accidentally eating an edible rose $1,375 \%$, a new study says.
There were more than 7,040 exposures to edible cannabis in kids under 6 between 2017 and 2021, according to an analysis of records from the National Poison Data System, a central repository for data from America's Poison Centers.

This Issue Views 2,194 | Altmetric 37
Viewpoint
October 10, 2022
The Continued Rise of Unintentional Ingestion of Edible Cannabis in Toddlers-A Growing Public Health Concern

Alexandra Van Oyen, DO ${ }^{1,2,2}$; Elise Perlman, MD ${ }^{3}$; Mark K. Su, MD, MPH ${ }^{2,4}$<br>》 Author Afflilations<br>JAMA Pediatr. 2022;176(11):1068-1069. do:10.1001/jamapediatrics.2022.3530

A 2 -year-old boy presents to the pediatric emergency department (ED) for altered mental status. Prior to arrival, he was with his babysitter in a normal state of health. After questioning, the babysitter mentions rewarding him with a gummy candy for good behavior. The parents admit they have edible cannabis stored in the cupboard that looks exactly like his favorite treats, gummy bears.

Almost a decade after the first states legalized the use of recreational marijuana and cannabis, health care professionals have treated countless cases of children who unintentionally ingested edible cannabis products that were not stored safely. Cannabis is the third most commonly used psychoactive substance worldwide, with use continuously rising in the US adult population. ${ }^{1}$ In 2019, 18\% of individuals in the US reported having used cannabis products at least once. ${ }^{1}$ As use of cannabis continues to be decriminalized and legalized across the US for adults aged 21 years and older, there has been a concurrent increase in unintentional ingestion of cannabis edibles among children, which raises a significant public health concern. ${ }^{1}$ The increase in these unintentional in-
(8) Stoned California Seniors Headed to ERs By the Thousands, ... UCSD Study Says

Story by Eric S. Page • Yesterday 9:33 AM
$\curvearrowright 144$
60 Comments

S
toned seniors - and we're not talking high-school kids - are visiting emergency rooms for cannabis-related issues in unprecedented numbers, according to a new study by UC San Diego researchers.


## Older Adults in ER for Marijuana

1,808\% relative increase in the rate of cannabisrelated trips to the emergency department among California adults ages 65 and older from 2005 to 2019.
medical services make an appointment patients \& visitors find a provider locations

## Newsroom

## Home / Newsroom / Releases / Cannabis-Related Emergency Department Visits among Older Adults on the Rise

Press Releases Cannabis-Related Emergency Department Visits UC San Diego Health InThe among Older Adults on the Rise
News

Study shows a high risk for adverse effects of cannabis use for adults ages 65 and older
Trending Topics
Podcast
Contacts for Journalists
Coronavirus (COVID-19) Media Statements

January 09, 2023 | Annie Pierce

As a growing number of older adults are experimenting with cannabis to help alleviate chronic symptoms, a new University of California San Diego School of Medicine study has identified a sharp increase in cannabis-related emergency department visits among the elderly.


The study, published Jan. 9, 2023 in the Journal of the American Geriatrics Society_E. identified a 1,808\% relative increase in the rate of cannabis-related trips to the emergency department among California adults ages 65 Cannabis use among older adults can lead to unintended consequences that require emergencr care. New UC San Diego School of Medicine study highlights that education with

## Screen All Patients for Cannabis Use Before Surgery: Guideline

## Screen All Patients for Cannabis Use Before Surgery: Guideline

 https://www.medscape.com/viewarticle/986690- All patients who undergo procedures that require regional or general anesthesia should be asked if, how often, and in what forms they use the drug, according to recommendations from the American Society of Regional Anesthesia and Pain Medicine (ASRA).
- One reason: Patients who regularly use cannabis may experience worse pain and nausea after surgery and may require more opioid analgesia, the group said.
- Kenneth Finn, MD, president of the American Board of Pain Medicine, welcomed the publication of the new guidelines. Finn, who practices at Springs Rehabilitation in Colorado Springs, Colorado, has edited a textbook about cannabis in medicine and founded the International Academy on the Science and Impact of Cannabis.
"The vast majority of medical providers really have no idea about cannabis and what its impacts are on the human body," Finn said


Screen All Patients for Cannabis Use Before Surgery: Guideline

(56) If you smoke, vape, or ingest cannabis, your anesthesiologist should know
before you undergo a surgical procedure, according to new medical
${ }_{192}$ guidelines.
All patients who undergo procedures that require regional or general
anesthesia should be asked if how often, and in what forms they use ccording to recommendations from the American Society of Regional

To continue reading this article.



## Why now?

- More access
- Higher potency
- The media largely ignored the issue for many years.
- Covid
- The medical community is playing catch up!


## High potency weed linked to psychotic episodes, mysterious vomiting illness in young users

"It felt like Edward Scissorhands was trying to grab my intestines and pull them out," a Colorado man told NBC News.


## More access more dependance

As for Marijuana dependence, referrals to treatment, can be higher in states that legally protect dispensaries for both adults and youth.

Journal List > HHS Author Manuscripts > PMC4315233 ..... OTI

J PolicyAnal Manage Author manuscript; available in PMC 2015 Feb 3 PMCID: PMC4315233 Published in final edited form as NIHMSID: NIHMS625422
JPolicyAnal Manage. 2015 Winter: 34(1): 7-31. ..... PMID: 25558490
doi: 10.1002/pam. 21804SH.

Assessing the Effects of Medical Marijuana Laws on Marijuana Use: The Devil is in the Details
Rosalie Liccardo Pacula, Ph.D., David Powell, Ph.D., Paul Heaton, Ph.D., and Eric L. Sevigny, Ph.D

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The publisher's final edited version of this article is available free at JPolicyAnal Manage

## More psychoactive

- Bud upwards of $30 \%$ THC
- Edibles and Vapes 90\% THC
- Many dispensaries do not sell products less than $50 \%$ THC



## The plant

Buds are the flowers of the female plant.

The female plant produces resin secreting buds. They contain the chemicals that get you high.

Oils and waxes are made using solvents and equipment to extract the resin.


## Marijuana extraction equipment

Using Solvent

- Ethanol (one of the most popular forms of extraction)
- CO2 Supercritical
- Hydrocarbon (butane, propane)
- Oils: Olive, coconut, vegetable.
- Combining different methods (e.g. injecting ethanol into CO2)


## Better Gardening Techniques

- Lighting and heating
- Hybridizing
- Water and Hydroponics
- Chemicals and Insecticides



## How high is too high?

- There is absolutely no research that indicates this level of THC is beneficial for any medical condition.
- The purpose of these products is to produce a high, and the increased potency makes them potentially more dangerous and more likely to result in addiction.
$\square$
National Library of Medicine
National Center for Biotechnology Information
$\widehat{\widehat{\text { PMC }} \text { PubMed Central }}{ }^{\ominus} \quad$ Search PMC Full-Text Archive $\quad$ Search in PMC
Run this search in PubMed e

The Problem with the Current High Potency THC Marijuana from the Perspective of an Addiction Psychiatrist
Elizabeth Stuyt, MD ${ }^{\text {W }}$

- Author information - Copyright and License information Disclaimer

Advocates for the legalization of medical and retail marijuana are quick to point out all the possible benefits that a community might see from such a venture. These include increased jobs, increased tax revenue, possible medical benefits and they advertise it as "safe" and "healthy" and "organic." They utilize the words "cannabis" and "marijuana" for everything without differentiating between the different forms of cannabis that can have very different effects on the mind and body.

Many people who have voted for legalization thought they were talking about the marijuana of the

SHARE


## Use has changed



Almost 300 School Districts Join Class Action Lawsuit Against Juul
fouowsenar
fo $\square$ By Jessy Edwards
June 18, 2021


Juul Bought Ads Appearing on Cartoon Network and Other Youth Sites, Suit Claims
The case, brought by Massachusetts after a lengthy investigation, presents some of the strongest evidence the vaping company was marketing to teenagers.


Juul Reaches \$439 Million Settlement Over Marketing to Kids (2)

Juul Labs inc. reached an agreement in principle to pay $\$ 438.5$ million to 33 states to resolve a two-year bipartisan probe into the e-cigarette manufacturer's marketing to children.

The accord, which also includes Puerto Rico, would force Juul to comply with a series of "strict injunctive terms severely limiting their marketing and sales practices," Oregon, said Tuesday in a statement.
Under the deal, Juul will refrain from all youth marketing, paid product placement, advertising on public transportation, funding education programs, depicting anyone marketing activities, according to the statement. Juul also agreed not to advertise on billboards or use paid influencers to promote products.


Topics vaping unfair and education
online advertising tobacco product safety mass transit social media

## A growing issue among youth!

Among youth, e-cigarettes, especially the disposable kind, are more popular than any traditional tobacco product.
According to the 2021 National Youth Tobacco Survey, more than 2 million U.S. middle and high school students reported using e-cigarettes in 2021, with more than 8 in 10 of those youth using flavored ecigarettes.

## Monitoring the Future - National Data



Increases in adolescent marijuana vaping from 2018 to 2019 ranked among the largest single-year increases ever observed by MTF in the past 45 years among all outcomes ever measured.


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Research Article Open Access
Real-Time Characterization of E-Cigarettes Use: The 1 Million Puffs
Study
sertrand Dautzenberg ${ }^{1,2^{*}}$ and Damien Bricara
Chest Department, University hospital Pitié Salpêtrière - Charles Foix (APHP), Paris, Franc
2University Pierre \& Marie Curie (UMPC), Paris, France
${ }^{3}$ Institut National d'Etudes Démographiques (INED), Paris,
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Tel: +33613437048

## Frequency of puffing

The median number of puffs per day was 132

These devices are common among youth.
Stizzy pens pre-loaded about 65-95\%THC
Cost \$65-\$95.00


## Vaping vs Smoking

Vaping marijuana produces a greater psychological and physiological effect compared to traditional smoking methods.

A recent study by John Hopkins found that THC levels in blood samples after vaping are much greater compared to levels found after smoking.


Marijuana can be infused in any food, lotion or drink.

The gummies and other colorful candies are driving the cases of unintentional poisonings locally.

## Adult use of edibles

- Can take longer to feel the effects.
- Edibles generally contain higher amounts of THC.
- In some cases, users report highs from 8 hours to a day.
- Can interact with driving and prescription meds.



Recreational Use: A retailer may sell up to 1 ounce of marijuana flower, or 8 grams of concentrate, or 800 -milligram servings of edible product, or more than 6 seeds in a day to a customer.


## Children's Hospital Colorado

- The most common overdose incidents in children occur when the drug has been combined with food in an "edible" form of marijuana. This is because marijuana ingested in this manner can have a stronger and prolonged effect, especially in children under the age of 12 years old.

In these instances, kids mistake "edible" marijuana (like gummy bears, brownies, lollipops, etc.) for regular food and eat it unknowingly.

- Small children are at higher risk based on their size and weight. Because edible products have very high amounts of marijuana, the symptoms are more severe on a small child. Many young children who consume marijuana edibles require hospital admission due to the severity of their symptoms.



## Mouthing for babies

- Babies feel things with lips and tongue, texture, taste, shapes
- Relieving pain of teething
- Explore the world
- Self soothing



## Height and Weight

Due to the height and weight of children, edible poisoning may be more severe and require hospitalization.

Children are unable to explain how much of the product they consumed.

## What happens when children eat THC products?

- Children are drawn to sweet cookies, candies and baked goods.
- Once out of the package no way of knowing what is inside.

Increasing poison control calls and ER visits, the result of allowing food products to be marketed and sold with harmful unseen chemicals inside.

## THC poisonings have variety of symptoms.

- Seizures
- Sleepiness
- Confusion/Panic
- Heart issues
- Upset stomach
- Mistaken for other illicit drugs


## What products are driving the increase?

- Fruit candies
- Chocolates
- Vape/juice

Reported THC Formulation Among THC+ Utox Patients at RCHSD (2014-2022)



Collect Public Health Related Marijuana Data

[^0]
## Cannabis

## Cannabis

## RESOURCES >

Cannabis, also known as marijuana, pot, weed, ganja, Mary Jane, and a vast number of other names, is the dried leaves, flowers, stems, and seeds from the Cannabis sativa or Cannabis indica plant. The plant contains tetrahydrocannabinol (THC), a mind-altering chemical.

When a person smokes cannabis, THC passes from the lungs into the bloodstream, which carries the chemical to the brain and other organs throughout the body. The effects are felt more slowly when a person eats (edibles) or drinks cannabis.

THC overactivates certain brain cell receptors, resulting in effects such as:

- Altered senses
- Changes in mood
- Impaired body movement
- Difficulty with thinking and problem-solving

Treatment Episode Data Set (TEDS): Compiles client-level data for substance abuse treatment admissions from State Agency data systems. State data systems collect data from facilities about their admissions to treatment and discharges from treatment. TEDS is an admission-based system, but it does not include all admissions.


Source: Center for Behavioral Health Statistics and Quality, Substance Abuse and Mental Health Services Administration (SAMHSA), Treatment Episode Data Set (TEDS).

Note: Numbers based on administrative data reported by states to TEDS through January 3, 2022.

* Nationally from 2016 to 2019, the highest percentage of marijuana treatment admissions were amongst those 26 years and older.



## 5 Reasons for local marijuana related hospital visits

- Drug Interactions
- Accidents/Injury
- Cannabis Hyperemesis
- Mental Health
- Poisonings


## Local ER visits



37

## ER visits a day in San Diego County hospitals related to marijuana.

Marijuana-Related Emergency Department Discharges ${ }^{7}$
Number of Emergency Department (ED) Discharges for Marijuana-Related Diagnoses in San Diego County, 2009-2019


## 690\% increase

```
in ED discharges
with marijuana listed
as a primary
diagnosis, from }11
in 2009 to }877\mathrm{ in
2019.
```

473\% increase
in ED discharges with marijuana as a primary or secondary diagnosis combined, from 2,362 in 2009 to 13,525 in 2019.

[^1] drug use may or may not have contributed to the reason for the ER visit

## CA Poison Control

- $75 \%$ Increase in marijuana poison control cases in SD County since 2016 (Prop 64).
- $242 \%$ increase since 2011.


## San Diego County Poison Control Data ${ }^{6}$

the below graph displays the number of unduplicated cases handled by the
California Poison Control Center for calls related to marijuana exposure from person living in San Diego County. Each year displayed includes all persons of any age and dispositions/ outcomes for the cases, incluaing cases resolved on-site (i.e,"
health care facility.
Number of Marijuana Human Exposure Cases for San Diego County, 2016-2020


## in marijuana

exposure cases in San Diego County handled by the California oison Control Center since 2016.


Source: Association of Poison Control Centers
Note: Data collected as of June 6, 2022. Numbers may change as cases are closed or additional information is received.

* National marijuana edibles exposure calls for ages 0-12 from 2016 (187) to 2021 (4329) has increased by $2215 \%$.


## National Poison Control

- Poisoning calls for marijuana edibles
- Cases increased during Covid lockdown

As of March 31, 2022, poison control centers have managed 1,717 cases in 2021 related to cannabidiol.



## FOR THE MEDIA:

Please cite this data as "National Poison Data System, American Association of Poison Control Centers." Any and all print, digital, social, or visual media using this data must include the following: "You can reach your local poison control center by calling the Poison Help hotline: 1-800-222-1222. To save the number in your mobile phone, text POISON to 797979." Email media@aapcc. org or call 703-894-1863 for more information, questions, or to submit request data.

## THC Positive Urine Toxicology Encounters at Rady Children's from Jan 2014- June 2022

Incidence of THC+ Utox Patients at RCHSD (2014-2022)


Analysis of THC Positive Urine at RCHSD from 2014-2022 Preliminary Data and Trends Alexandra Dubinin and Dr. Natalie Laub

Reports of "Home" Exposures Among THC+ Utox Patients at RCHSD
(2014-2022)


Summary of cases:

- Whose marijuana - Mom
-What type of marijuana product - Edibles (fruity candies/gummies)
- Where did the exposure occur - Home
- How children present - Heart arrhythmia, altered mental status, fatigue, fussiness, vomiting.

- $10 \%$ of the cases were so severe they required stays in the pediatric intensive care unit.


## Symptoms Reported



## Alexandra Dubinin and Dr. Natalie Laub

## Chief Concern

- 45\% Ingestion/Drug overdose
- $31 \%$ Altered Mental Status
- $11 \%$ Fatigue


## Vital Signs

- Overall, >50\% of children had normal vitals
- Tachycardia and Bradypnea were the most common irregularities seen



## Vital Signs of THC+ Utox Patients at RCHSD



What is Delta 8 THC?


Emergency Preparedness and Response

个 Health Alert Network (HAN)

HAN Jurisdictions

HAN Message Types
sign Up for HAN Updates

## HAN Archive

2021

HANOO453

HAN00452

HANOO451

HAN00450

HANOO449

HAN00448

## Increases in Availability of Cannabis Products Containing Delta-8 THC and Reported Cases of Adverse Events

Distributed via the CDC Health Alert Network
September 14, 2021, 10:00 AM ET
CDCHAN-00451

## Summary

The purpose of this Health Alert Network (HAN) Health Advisory is to alert public health departments, healthcare professionals, first responders, poison control centers, laboratories, and the public to the increased availability of cannabis products containing delta-8 tetrahydrocannabinol (THC) and the potential for adverse events due to insufficient labeling of products containing THC and cannabidiol (CBD).

## Background

Marijuana, which can also be called weed, pot, or dope, refers to all parts of the plant Cannabis sativa L., including flower


## Delta 8 THC

- Delta 8 is made from CBD from the Hemp plant which is converted by using a solvent into Delta 8.
- The conversion of CBD to delta-8-THC involves refluxing CBD in an organic solvent, such as toluene or heptane, with acid that serves as a catalyst. The reaction is typically run for 60-90 min.


## FDA Warning Delta 8

FDA Issues Warning Letters to Companies Illegally Selling CBD and Delta-8 THC Products
Violations Include Marketing Unapproved New Drugs, Misbranding, Adding Delta-8 THC to Food Products


Today, the U.S. Food and Drug Administration issued warning letters to five companies for selling products labeled as containing delta-8 tetrahydrocannabinol (delta-8 THC) in ways that violate the Federal Food, Drug, and Cosmetic Act (FD\&C Act). This action is the first time the FDA has issued warning letters for products containing delta-8 THC. Delta-8 THC has psychoactive and intoxicating effects and may be dangerous to consumers. The FDA has received reports of adverse events experienced by paients who have consumed these products.

There are no FDA-approved drugs containing delta-8 THC. Any delta-8 THC product claiming to diagnose, cure, mitigate, treat, or prevent diseases is considered an


The FDA received 104 reports of adverse events in patients who consumed delta-8 THC products between December 1, 2020, and February 28, 2022. Of these 104 adverse event reports:

## FDA reports

- $77 \%$ involved adults, $8 \%$ involved pediatric patients less than 18 years of age, and $15 \%$ did not report age.
- $66 \%$ described adverse events after ingestion of delta-8 THC-containing food products (e.g., brownies, gummies).

Adverse events included, but were not limited to: hallucinations, vomiting, tremor, anxiety, dizziness, confusion, and loss of consciousness.

## Delta 8 Exposure Cases - National Poison Control

National poison control centers received 2,362 exposure cases of delta-8 THC products between January 1, 2021 (i.e., date that delta8 THC product code was added to database), and February 28, 2022.

Of the 2,362 exposure cases:


- $58 \%$ involved adults, $41 \%$ involved pediatric patients less than 18 years of age, and $1 \%$ did not report age.
-40\% involved unintentional exposure to delta-8 THC and $82 \%$ of these unintentional exposures affected pediatric patients.
-70\% required health care facility evaluation, of which 8\% resulted in admission to a critical care unit; $45 \%$ of patients requiring health care facility evaluation were pediatric patients.
- One pediatric case was coded with a medical outcome of death.


## FDA Warning Letters

$\leftarrow$ Home / News \& Events / EDA Newsioom / Press Announcements / EDA lssues WarningLetters to Companies Illegally Selling CBD and Delta-8 THC Products
fDA news release
FDA Issues Warning Letters to Companies Illegally Selling CBD and Delta-8 THC Products

|  | Violations Include Marketing Unapproved New Drugs, Misbranding, Adding Delta-8 THC to Food Products |  |  |  |  |  |
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There are no FDA-approved drugs containing delta-8 THC. Any delta-8 THC product claiming to diagnose, cure, mitigate, treat, or prevent diseases is considered an unapproved new drug. The FDA has not evaluated whether these unapproved drug

## FDA Letters

- An uptick in adverse event reports to the FDA and the nation's poison control centers.
- Marketing, including online marketing of products, that is appealing to children.
- Concerns regarding contamination due to methods of manufacturing that may in some cases be used to produce marketed delta-8 THC products.

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By Substances | By Age | By Season | Order Materials | Podcast | First Aid | How to Seek Help
Poison Prevention Adults | Poison Prevention Seniors | Poison Prevention, Teens | Nicotine and cigarettes

## E-Cigs and Toddlers: Beware



## The Bottom Line

Electronic cigarettes (e-Cifis) are devices made to look like real ligarettes. They contain a battery, a heater, and liquid
nicotine. When heated, the nicotine liquid becomes a vapo, Which users inhale. Liquid nicotine products contain flavorings and something to help the product vaporize.
Liquid nicotine procucts are very poisonous if swallowed.


## The Full Story

Tobacco and cigarette smoking in the United States have been declining over the last few years. A growing new trend is electronic cigarettes (often referred to as "e-Cigs" or "vapor cigarettes").
Electronic cigarettes are used by people who don't want to smoke but do want to use nicotine: adults, eens, and even younger children. About 20 percent of U.S. adult smokers have used electronic percent of high school students admit to smoking electronic cigarettes.

## Vape juice poisoning

Liquid nicotine is the liquid inside an ecigarette or vaping device and is also called "vape juice" or "e-liquid."

The product is dangerous to swallow and can even be absorbed if spilled on the skin. As little as one teaspoon could be harmful.

Nicotine poisoning often causes nausea, vomiting, dizziness, tremors (shakiness), and sweating, and can make the heartbeat much faster than normal. Severe poisoning can cause seizures. It can even cause death. Seizures can begin only 20-30 minutes after swallowing products containing nicotine.

## Other chemicals in vape cartridge

- THC, CBD, Nicotine
- Terpenes: Vape cartridges may contain both cannabis and non cannabis derived terpenes.
- Hydrosols: Floral or aromatic waters (i.e., essential oils) and contain only small percentages of actual terpenes.
- Artificial flavors: The artificial flavors found in cannabis cartridges are sourced from the e-cigarette industry. There are thousands of flavors, but their safety is in question (e.g., diacetyl causing "popcorn lung").
- Vitamin E acetate: is an oily chemical commonly added to THC vaping liquids to dilute or thicken the mixture.
- Propylene glycol, vegetable glycerin, glycerol: responsible for the mist/vapor.


## Black Market products

Does the label match the contents?

California's legal weed industry can't compete with illicit market
Local government opposition, high taxes and competition from unlicensed businesses are complicating the state's push to build a thriving legal market.


## The illegal market that never goes away!

California's cannabis law lets local officials decide whether to open the door to cannabis or slam it shut. So far, most are opting for the latter. I Justin Sullivan/Getty Images

IDHS > Customers > Services by Division > Mental Health >

## Crisis/Emergency: Mental Health Partners/Providers

The Illinois Department of Human Services/Division of Mental Health is expanding the crisis services continuum to support the SAMHSA Crisis Services: Meeting Needs, Saving Lives initiative. This effort aims to establish a continuum of crisis services available for anyone, anywhere, and at any time. Program 590 is a specific DMH grant that supports infrastructure and capacity of a community crisis care continuum.

The following list of providers have received funding to develop this capacity

| CITY | PROVIDER INFO | PHONE |
| :---: | :---: | :---: |
| Anna | Arrowleaf <br> https://myarrowleaf.org <br> 204 South St. 62906 | 618-658-2611 |
| Arlington Heights | Alexian Brothers Center for Mental Health www.amitahealth.org/centerformentalhealth 3436 N. Kennicott Ave. 60004 | 708-681-4357 |
| Aurora | Association for Individual Development https://www.aidcares.org/ <br> 1230 N. Highland Ave. 60506 | 630-966-9393 |
| Berwyn | Pillars Community Services https://pillarscommunityhealth.org/ <br> 6018 M/indenr Myo f010つ | 708-745-5277 |

## Online Tools

Apply for Cash, SNAP \& Medical Assistance
Change of Address, Income or Assets

Manage My Illinois Link Account Rehabilitation Services: Apply. Online

Child Care Eligibility Calculator SNAP Eligibility Calculator Office Locator

## Confiscation and Handling

Students caught with vaping devices should be referred to designated staff (Administrator, Nurse, or SRO) to confiscate. Once confiscation is complete, the student should be referred to an intervention program for violating the tobacco free policy. (see tiered intervention recommendations.)

## San Diego County Office of Education Safe Handling of Vape Pen Guidelines

- Gloves and plastic bags should be available at the location the device is confiscated, as liquid nicotine is acute hazardous waste and can be absorbed through skin.
Gloves should be worn anytime a vaping device is being handled
The device should be put into a plastic bag and sealed.


## Handling \& Storage

- Devices should be stored in individual, sealed plastic bags then put in a closed, non-reactive container. Recommended containers include plastic or lined metal containers.
- Devices can be stored together in a container if they are individually bagged.
- One central location for individually bagged devices to be kept (Security office, AP office, etc.)
- Devices with removeable batteries or cartridges should be separated. Batteries and device should be bagged separately
- Devices not meant to come apart (disposables) should not be taken apart.

For Disposal

- District registers as a hazardous waste receiver with County HazMat or contract with local agencies such as Clean Harbors to collect waste.
- County HazMat is $\$ 504 /$ year $+\$ 81 /$ item $/$ year for permit. Clean Harbor and other agencies charge on a case-by-case basis depending on volume, waste stream, and frequency of pick-ups. District office facilitates hazardous waste pick up from schools.
District should either empty school container into larger contaier for transport or swap out full container with an empty container at the school site.
Store all waste at the district office until it is necessary to take to County HazMat or picked up by contracted agency.
- An alternative would be to notify parents to pick up the individually sealed devices. If parents pick up devices, they should be given information on the hazardous waste implications of vaping devices, as well as information on the addictive nature and potential harm associated with vaping devices.


## Proper handling and disposal of E-cigarettes and other vaping devices



## Did you know? <br> Marijuana may cause drug interactions with your medications

Chemicals found in marijuana such as Tetrahydrocannabinol (THC) and Cannabidiol (CBD) may interact with medications.

Common drugs that cause interactions include:

- Sedatives
- Anti-Anxiety medications
- Anti-Depressant medications
- Pain medications
- Seizure medications
- Blood Thinners

It is always recommended to inform your Doctor or health care provider of any substances you may be taking.

## Drug Interactions

Use the site Drugs.com to check for interactions.

Visit drugs.com

## Be in the know!

## Marijuana may cause drug interactions with your medications

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It is always recommended to inform your Doctor or health care provider of any substances you may be taking to avoid harmful drug interactions.

## Ask A Doctor!

- If you have questions about marijuana, ask a Doctor, nurse practitioner or physician assistant.
- Remember there may be unknown ingredients and chemicals in products that do not appear on the label.


- Do you document the incident
- Does the school have a Protocol, take pictures of

Items to discuss with Administration! product, document packaging, symptoms, notify parent and staff.

- Interventions

Teachable moment!


## Advocate for child proof packaging

- Do not use in front of children.
- Store away from children.
- Do not leave individual candies or products outside the wrapper.
- Speak with your older children about the effects.


## FDA complaint system

About untested products claiming to have medical value!


[^2]
## Report an emergency

- If you are experiencing a life-threatening medical emergency, call 9-1-1.
- To report an emergency involving food, drugs, medical devices, dietary supplements, or cosmetics, call 1-866-300-4374 or 1-301-796-8240.


## Know how to file a complaint - CA



Department of
Cannabis Control
CALIFORNIA

```
Search
```


## File a complaint

You can file an anonymous complaint against licensed or unlicensed cannabis businesses. Provide as much detail as you can.

File a complaint

## IASIC

- Doctors advocating for public health in marijuana policy.
- Pushing back on the marijuana industry.

Join their email list
IASIC1.org

## Serious Health Hazards

SIC, the International Academy on the Science and Impact of Cannabis, is a medical organization
of doctors who educate on the impacts of cannabis, based on the scientific and medical literature. of doctors who educate on the impacts of cannabis, based on the scientific and medical literature.
IASIC is a non-phartisan and non-political group created to facilitate informed decisions when


## Data Resources

- ABCD study - https://abcdstudy.org/
- CDC Cannabis Strategy -
https://www.cdc.gov/marijuana/index.htm
- National Poison Control Data https://www.poison.org/
- HIDTA CA Marijuana Impact Reporthttps://www.ccrconsulting.org/media/attachmen ts/2023/02/07/california-marijuana-impact-report-2022-final.pdf
- Tools for Schools -
https://www.livewellsd.org/content/livewell/home/tools forschools/tools-for-schools.html
- Getting it Right from the Start https:///gettingitrightfromthestart.org/
- NIDA - https://nida.nih.gov/research-topics/cannabismarijuana


## Focused MPI Trainings - 2023

Trainings for staff on how to refer kids to early intervention and treatment programs.

Parent nights where extra credit is given to youth that bring adults.

## MPI Resources

MPI reducing underage use of marijuana.

## Resources:

- IASIC link

- Vision Zero DUI
- NEW-MPI 2021 Report

Visit our MPI website, YouTube or twitter:
http://www.ccrconsulting.org/mpi

## Transition to Patrick Foley


[^0]:    Home > Topics \& Services > Prevention \& Wellness > Cannabis

[^1]:    *Indicates cases where either the primary or secondary diagnosis upon discharge was marijuand related. For most secondary cases, individuals came into the ER for something else (e.g., broken arm, injury, flu, etc.) and cannabis use was added as a secondary diagnosis. In these cases, the

[^2]:    Product developers and importers who need to contact FDA regarding issues related to COVID-19 products and physicians seeking an emergency IND: Please see contact information on FDA's main COVID-19_page.

