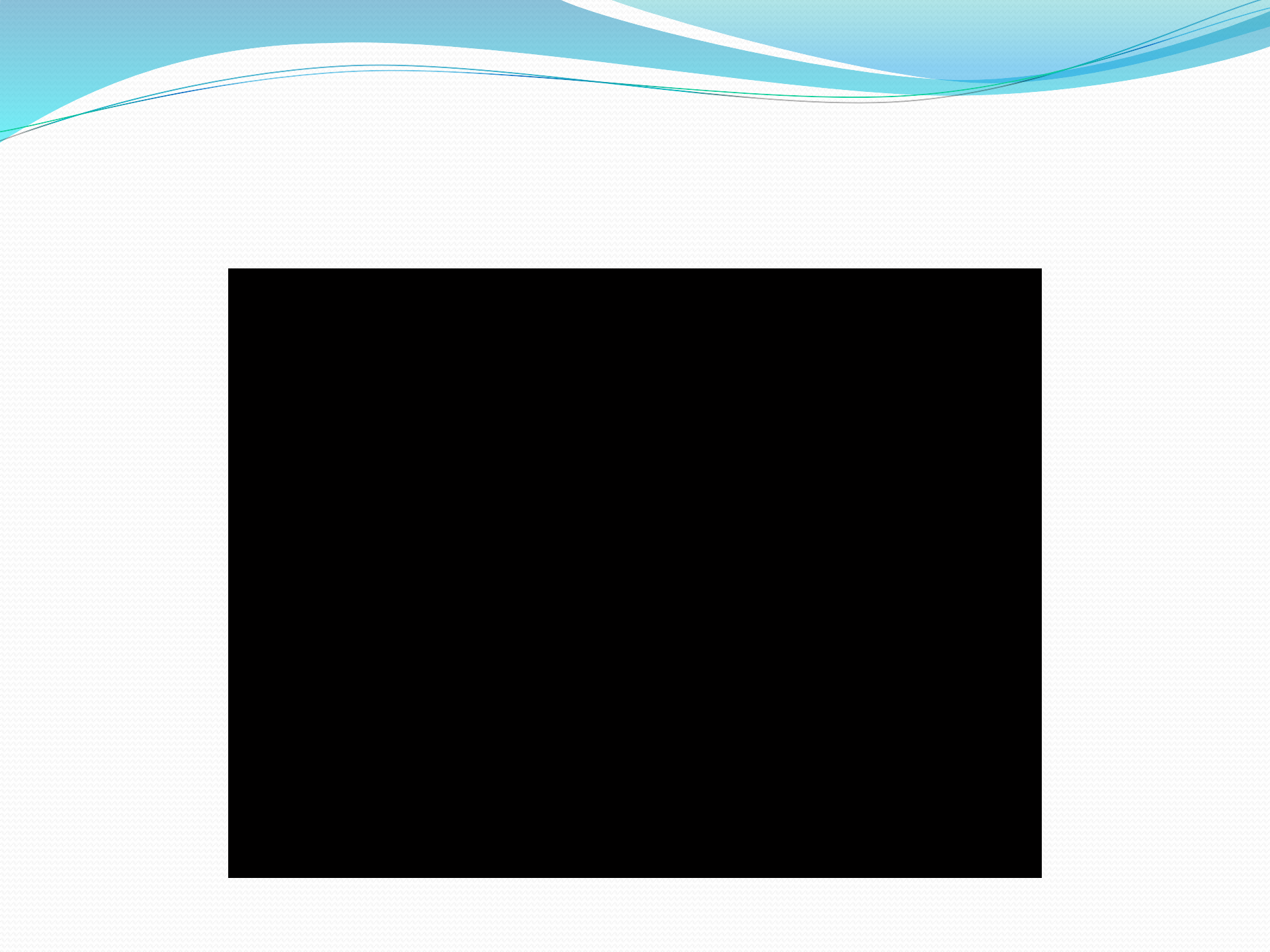
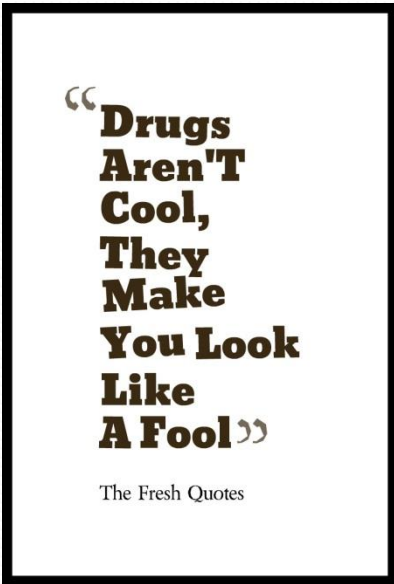
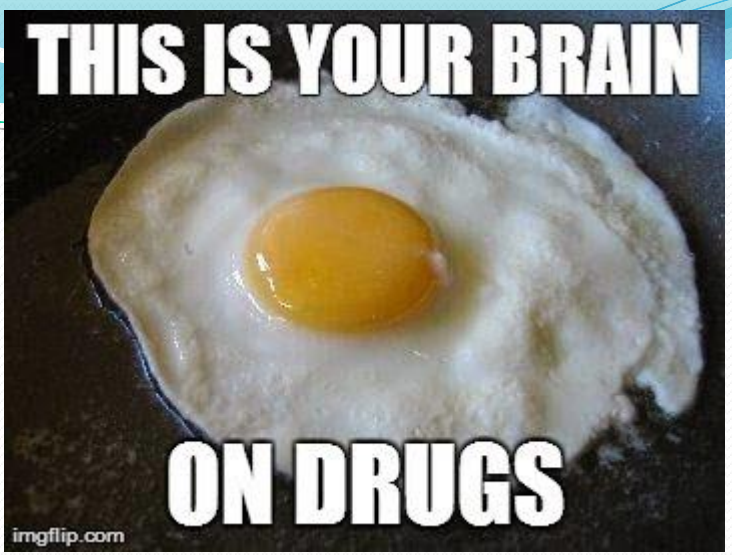


# **Street, Script and Synthetic:**

## **Old School to New School Gateway Drugs, Opiate Epidemic & the World of Synthetics**

**Stephanie Siete**  
**Public Information Officer**  
**CommunityBridgesAZ.org**





# The Rule of 5

- **5 years of age**
  - This is the average age experts advise you should start having the drug talk
- **5 year plan**
  - How old is your kid? What do you want them to know 5 years from now?
  - Start talking



# Drugs look like candy





## You never know what you are getting




**Los Pollos Hermanos  
Meth (Candy) Buckets**




**Flavored Cocaine**

Would you know the difference?			Sweetarts Candy
			Equate Cold Medication
Would you know the difference?			Jelly Bean Candy
			Iron Vitamin
Would you know the difference?			M&M Mini Chocolate
			Sudafed Decongestant Medication
Would you know the difference?			Skittles Candy
			Drixoral Cold and Allergy Medication



“Teens' behavior is strongly associated with their parents' behavior and expectations, so parents who expect their children to drink and use drugs will have children who drink and use drugs.”

Joseph A. Califano, Jr., CASA's chairman and founder and former U.S. Secretary of Health, Education, and Welfare



# 12.5

**Average age to start experimenting with  
drugs and alcohol**



# Social Norms in the Media



I was banging 7 gram rocks and finishing them! That's how I roll!





# Some don't make it though...





# Push 'em toward their **PASSION**

- #1 Reason teens use drugs...
  - **Boredom**
- What are you passionate about?
  - **Sports/Fitness** – team, classes, 5K
  - **Dancing** – classes, fun, events
  - **Pets** – rescue, shelters, volunteer, veterinarian
  - **Music** – singing, listening
  - **Reading** – for fun, as a volunteer
  - **Writing** – songs, poetry, books
  - **Teaching** – any classes
  - **Art** – are the creative? Photography, drawing, painting
  - **Computers** – games, social media, websites

# Roles models help define Norms

**Where the norms come from are IMPORTANT**

- Parents
- Teachers
- Grandparents
- Music instructor
- Counselors
- Sports coaches
- Positive Peer – after school program
- Neighbors
- Aunts/Uncles
- Pastors
- SROs
- Youth group leaders
- Bosses
- Important adults

# What are we fighting?

- **Teen brain**

- Lack of life experience
- We all suffered from it
  - Today vs. when you were growing up

- **Irrational brain**

- Drug addicted
- Addicts “normal” is different

- **Behaviors**

- Inappropriate vs. appropriate
- “learned” or self taught

- **Technology**

- Easy access to early exposure



# Prevalent Drugs of Abuse:

- ✓ **ALCOHOL**
- ✓ **CIGARETTES**
- ✓ **MARIJUANA**
- \* Prescription Drugs

Source: Monitoring the Future Survey, Institute for Social Research, University of Michigan, 1999.

# CAUTION

**“Legal”**

**Does NOT**

**Mean Safe**



# Inhalants



- Not classified as drugs, classified as poisons
- “Inhalants kill more first time users than any other substance used as a drug” Buzzed, 2014
- Deprives oxygen to the brain
- Examples:
  - paints, whip cream canisters, markers, whiteout, cooking spray, superglue, gasoline, nitrous oxide “whippets”, aerosols – hairspray, etc.
- [www.inhalants.org](http://www.inhalants.org)



# 10 Common Energy Drink Ingredients

Buyer beware. Almost every energy drink has its own "energy blend" of proprietary ingredients. And keep in mind that manufacturers aren't required to tell you how much of each ingredient their product contains

- Caffeine
- Ginseng
- B Vitamins
- Sugar
- Taurine
- Green Tea Extract
- Guarana
- Green Coffee Extract
- Ginkgo Biloba
- Carnitine



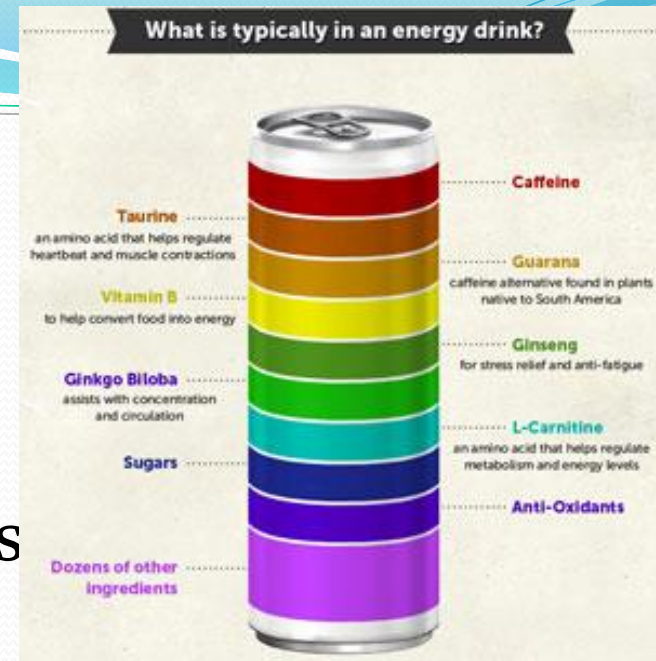
# Teen dies after drinking latte, Mountain Dew and an energy drink within 2 hours

- 16 year old Davis Allen Cripe of South Carolina died after consuming excessive amounts of caffeine within 2 hours
- Caffeine induced arrhythmia
  - Irregular heartbeat
- More teens consuming caffeine than ever before
  - Adults – 400 mg vs Teens – 100 mg
  - Parents, talk to your kids...



# Risks of Energy Drinks for Teens

- Potential harms, caused by too much caffeine or similar ingredients heart palpitations, seizures, strokes and even sudden death
- Some cans - 4 to 5 times more caffeine than soda
- Energy drinks are the fastest growing US beverage market
  - 2011 sales expected to top \$9 billion
  - 1/3 of teens & young adults regularly consume energy drinks



Clinical report on energy drinks expected soon from American Academy of Pediatrics that may include guidelines for doctors

Medical Journal: Pediatrics, February, 2011





# WARNING:

Consuming energy drinks that contain or are mixed with alcohol may mask the signs of impairment and

**INCREASE YOUR RISKS OF INJURY**





Which of these energy drink brands contain alcohol?



# How do you recognize difference?

- An energy drink has a supplement facts label



- An alcohol energy drink does NOT

<b>Supplement Facts</b>		
Serving Size: 1 bottle (355mL)		
	Amount per Serving	% Daily Value*
Calories	160	
Total Carbohydrate	41g	14%
Sugars	40g	
Sodium	10 mg	0%
Vitamin C		100%
Vitamin E		100%
Vitamin B6		100%
Vitamin B12		500%
Proprietary Brain Boosting Energy®† Blend-625 mg		
Coenzyme Q10		**
Choline		**
Taurine		**
Caffeine	110 mg	**
*Percent Daily Values are based on a 2,000 calorie diet.		
** Daily Value not established		

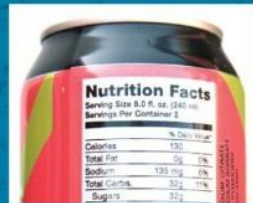
# ALCOHOL? ENERGY? BOTH?



## LOOKS CAN BE DECEIVING

Many people do not realize that certain energy drinks contain alcohol.

NONALCOHOLIC DRINKS list "nutrition facts" on the can or bottle.



ALCOHOLIC DRINKS specify alcohol content and have a warning on the can or bottle.



Know what you are drinking. If alcohol is an ingredient, the amount varies by product. As with all beverages containing alcohol, persons must be 21 to purchase alcoholic energy drinks.



Va. Dept. of Alcoholic Beverage Control

Web site: www.abc.virginia.gov

[http://cojac.ca.gov/youth/pdf/aed\\_flyer4.pdf](http://cojac.ca.gov/youth/pdf/aed_flyer4.pdf)

### Ingredients:

Caffeine  
Guarana  
Glucuronolactone  
Taurine  
Wormwood  
Other Stimulants,

plus alcohol



## Alcoholic Energy Drinks

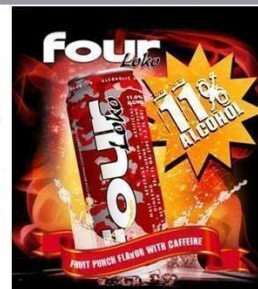


Alcohol content: 6%-12%  
Container Size: 12-23.5 ounces

A 23.5 ounce container with 12% alcohol contains more alcohol than 4 cans of beer plus a heavy dose of caffeine and other stimulants!

### The Problem:

- The mixture of a depressant (alcohol) and a stimulant (such as caffeine) can lead to serious health and safety issues.
- This dangerous mix can create a "wide awake drunk" - someone who is intoxicated but does not feel it and who, as a result, may engage in risky behavior such as driving under the influence. Inexperienced, young drinkers are the most vulnerable to these risks.
- Alcoholic energy drinks (AEDs) build on the popularity of non-alcoholic energy drinks among young people, using similar marketing appeals, website designs, and packaging. In many stores, the two products are side by side.
- Law enforcement officers, teachers, parents, and even retail clerks have difficulty distinguishing AEDs from non-alcoholic energy drinks. The packaging and marketing makes it much easier for young people to purchase and consume AEDs without being detected. And they are usually cheaper than their non-alcoholic cousins.



### Sample Prices:

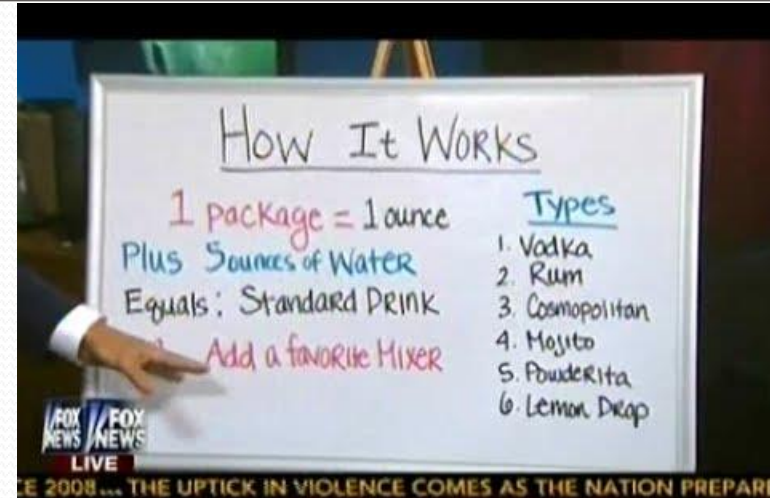
Alcoholic		Non-Alcoholic	
Jooze:	\$2.59	Redbull:	\$3.59
(23.5 oz-\$1.11/oz)		(16.6 oz-\$2.22/oz)	
Four Loko:	\$2.59	Monster:	\$2.39
(23.5 oz-\$1.11/oz)		(16.6 oz-\$2.22/oz)	





# Palcohol

- Powdered alcohol
- Just add water to bag
- Equivalent to standard mixed drink
- Approved by US Alcohol and Tobacco Tax and Trade Bureau
- Available online
- <http://www.palcohol.com/>



# Purple Drank

- Recreational drug popular in the hip-hop community
- **Promethazine** (antihistamine), **codeine** (narcotic), maybe some vicodin, jolly rancher, sprite
- **Slang:** Sizzurp, Screw, Lean, Syrup, Purple Tonic, Texas Tea and Purple Sprite
- **Effects:** drowsiness, sedation, blurred vision, euphoria, nervousness, insomnia & hallucinations





# E-cigarettes

- According to the FDA, electronic cigarettes are **battery-operated devices that turn nicotine or other chemicals into a vapor** that is inhaled by the user
- Use on the rise among teens
- Easy to conceal other drug use
- Liquid nicotine = potential hazard
- “Vaping” or using “Dabs”
- Vaping Pens...

## The electronic cigarette

It may look like a cigarette and deliver a dose of nicotine, but that's where the similarity ends.

Red **LED** glows when user draws gas from the device.

Rechargeable **battery**

A **sensor** turns on the device when it detects a drop in pressure as the user pulls air from the end . . .

. . . triggering the **atomizer**, which converts stored liquid into a warm fog.

The replaceable **mouthpiece/reservoir** contains a liquid consisting of propylene glycol, glycerine, nicotine and flavorings.

An FDA study found that e-cigarettes release carcinogens and toxic chemicals. However, they might be safer than regular cigarettes because they don't release tar, carbon monoxide, hydrogen cyanide and other poisons found in cigarette smoke.

Sources: Tobacco Control, FDA

PATTERSON CLARK/THE WASHINGTON POST

# Electronic Nicotine Delivery Systems (ENDS)

- Vaporizers, vape pens, hookah pens, electronic cigarettes, e-pipes, etc.



# E-cig use and teens

- Use among middle and high school students tripled from 2013-2014
- High School
  - 4.5% to 13.4%
  - 660,000 – 2 million
- Middle School
  - 1.1% to 3.9%
  - 120,000 – 450,000



# ENDS and Teen Use

- **More than 3 million** middle and high school students were current users of e-cigs in 2015
- In 2014, **81% of current youth e-cig users** cited the availability of appealing flavors as primary reason for use
- How do they obtain:
  - Visa Gift Cards ➡ Amazon Account = Purchase



# E-cigarette Liquid

A collection of five pens is displayed on a plain white background. From left to right, there is a black pen with a silver clip and a silver-colored tip, a black pen with a silver-colored band, a green pen with a silver-colored band, a rainbow-colored pen with a silver-colored band, and a clear pen with a silver-colored band and a clear tip.



## Cartridge Style E-Cigarette



## Re-Fillable Tank Style E-Cigarette

# Regular Cigarettes, Electronic Cigarettes, Vaporizer Pens

# JUUL

## “Juuling”

## #JUULVAPOR



**JUUL Starter Kit \$37.49**



# Juul Vapor e-cigarette

- The Juul is barely 9cm long and 1.5cm in width. **It's basically the size of a long USB stick and weighs about the same!** Ideal for putting in your pocket and taking around with you.
- 4 different flavor pods that are easily inserted into the device. You get 4 pods: Miint, Fruut, Bruule and Tabaac. You also get a magnetic USB charging device and a 1 year warranty.
- Each Juul pod flavor cartridge contains 0.7mL of juice with 5% nicotine by weight.
- The total prize for the kit is \$49.99.



# Mods

## “Modding”

- They have more features than regular e-cigarettes, customizable options, long battery life, and most importantly, they produce more vapor
- “Modifying” them to accommodate larger batteries and higher resistance atomizers, and better cartridges and tanks





# More Mods



# E-cig explosions



16 year old teen  
suffers 2<sup>nd</sup> degree  
burns to face





# Teens and Vape explosions



This is it I got stitches and wires on my bottom jaw





Man loses 7  
teeth after  
vaping  
explosion

Man loses  
part of  
tongue after  
vaping  
explosion





# E-cig Explosions

- E-Cig Blows up in Man's Pocket
- E-cig lodges into ceiling after blowing up in man's hand



# 5 Tips to help avoid vape battery explosions

## 1. Consider using vapes with safety features

such as firing button locks, vent holes, and protection against overcharging.



## 2. Keep your vape covered.

Don't let it come into contact with coins or loose batteries in your pocket.

## 3. Never charge your vape with a phone or tablet charger.

Always use the charger that came with it.

## 4. Don't charge your vape overnight or leave it charging unattended.

## 5. Replace the batteries if they get damaged or wet.

If your vape gets damaged and the batteries are not replaceable, contact the manufacturer.

# Electronic Cigarettes and Liquid Nicotine Exposures - AAPCC

Year	Number of Cases
2011	271
2012	460
2013	1,543
2014	4,024
2015	3,774
2016	2,886
2017 (thru April)	795

**More than half of these reported exposures have occurred in young children under the age of 6**



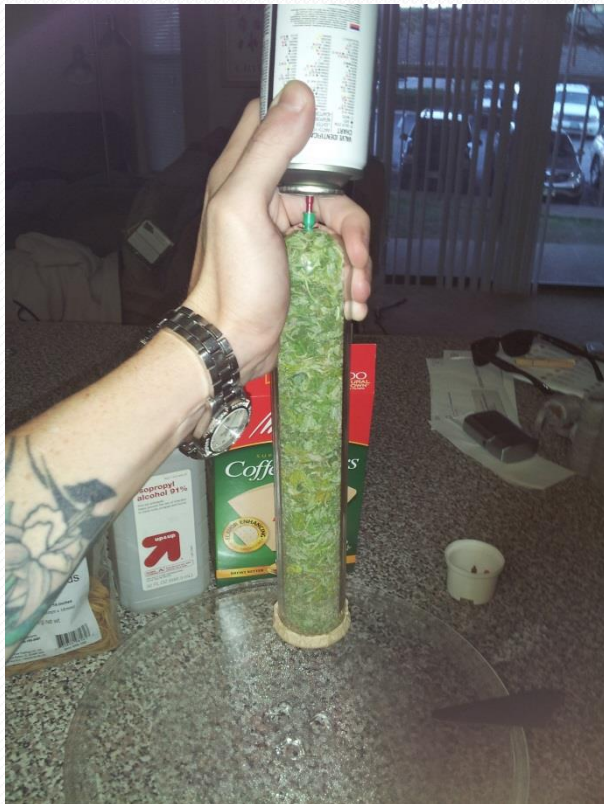
# Butane Honey Oil (BHO)

## Dabs, Wax, Budder, Shatter

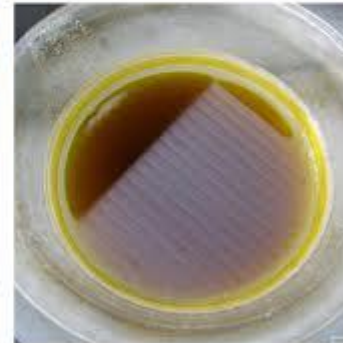
- Similar to oils, but **more concentrated**; thus greater high
- Cooked like meth; acts like meth: **psychotic breaks**
- **Passing butane through a tube packed with marijuana**
- Leaves extracted resin behind as a sticky, thick oil-like substance
- Risk of explosion
- **90% THC**



# The BHO Process







[www.dailydabs420.com](http://www.dailydabs420.com)

# BHO Explosions - video

**WARNING**

**The following video contains  
content that may be disturbing to some.  
Viewer discretion is advised**



# BHO Explosions



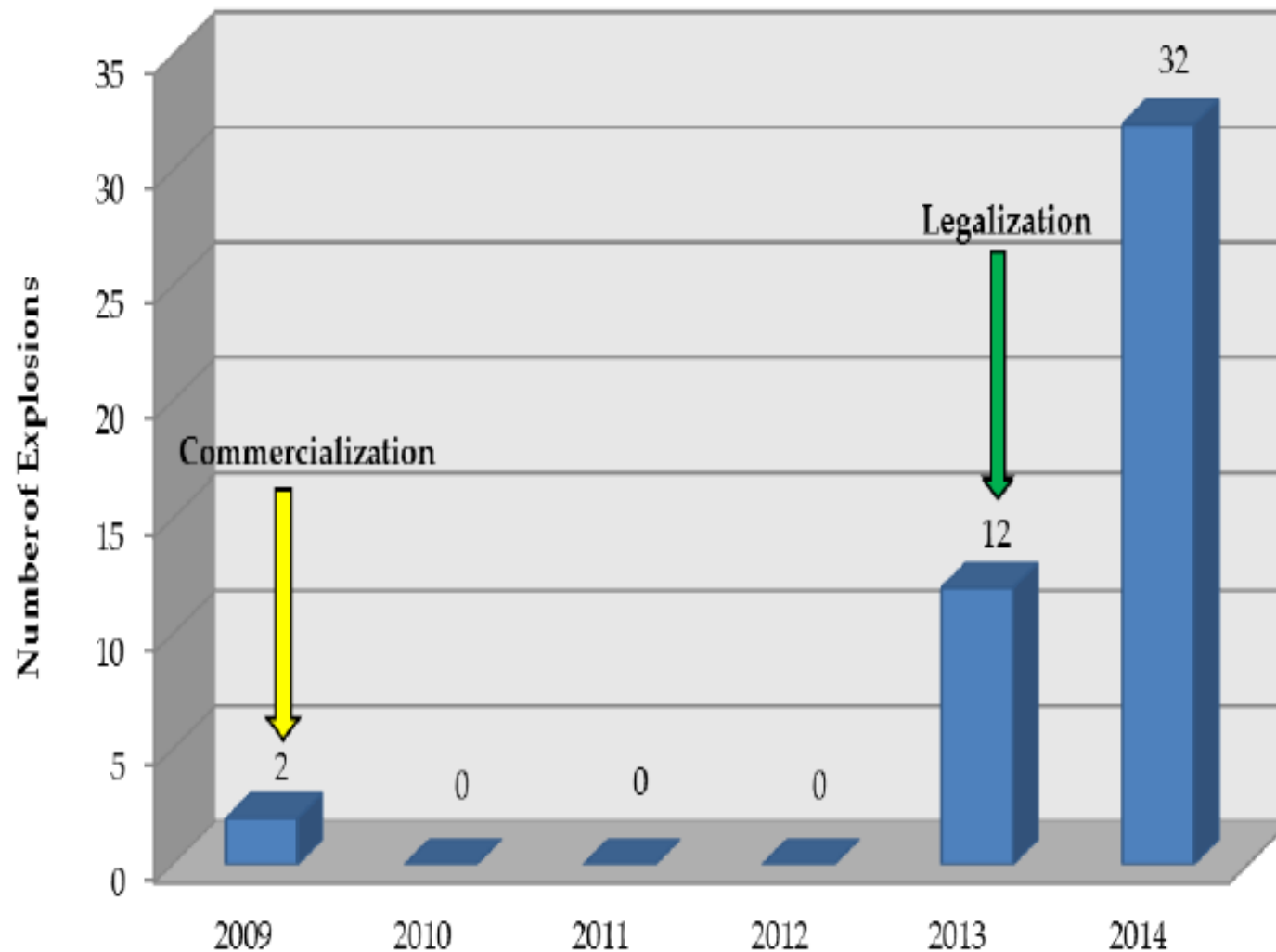
Extremely dangerous for you,  
loved ones, neighbors, the  
community







# THC Extraction Lab Explosions



SOURCE: Rocky Mountain HIDTA, Investigative Support Center



# THC'S MANY FORMS



## Smoking Marijuana

Dried flower buds from the cannabis plant



## Smoking Cannabis or Hashish Oils

Made from resin extracted from the flower cluster and top leaves of the plant



## Using a Vaporizer

Cannabis that's heated and vaporized, not burned



## Marinol

FDA-approved medicine that contains synthetic THC



## Edibles

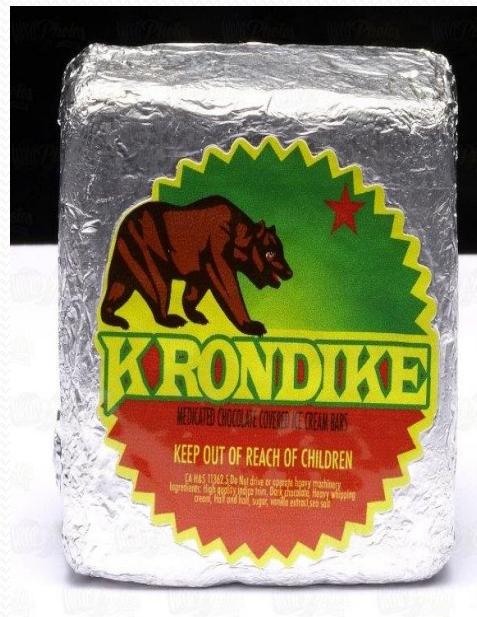
Food, drinks, oils







41 this morning on russia reports candy that could send your child to the







# Third Death in Colorado Linked to Marijuana Edibles

<http://www.foodsafetynews.com/2015/03/third-death-in-colorado-linked-to-edible-marijuana/#.VUqoaLctFdg>

1. **Colorado dad pleads not guilty to shooting his wife dead in front of their three sons after 'hallucinating on pot candy'** March, 2015
  - Kristine Kirk, 44, was shot dead at her Denver home in April 2014. She was on the phone to 911 reporting her husband's 'scary' behavior. He was 'talking about the end of the world', she said to the dispatcher
2. **Wyoming college student Levy Thamba Pongi, 19, who took a leap from a Denver hotel balcony after eating pot-infused cookies. "Marijuana intoxication" was listed by the coroner as a significant factor in his death.**
3. **Luke Goodman, 23, killed himself Saturday, March 27, 2015 in a condo at Colorado's Keystone Ski Area. Goodman's family and friends suspect that edible marijuana was a factor in the self-inflicted gunshot death. His mother, Kim Goodman, blames her son's death on "a complete reaction to the drugs."**



# Then

- 1960-1970s – 2-3% THC (leafy green)
- 420 (chemicals, time to smoke, date to party)
- Smoked weed



# Now

- 20-30% THC (leafy green)
- **710** (oil, concentrated w more chemicals)
- Vaped, smoked, edible, dabbing
- Might not smell it
- Looks like butter, honey, oil
- Synthetic: cooked with butane
  - **90% THC**
  - **Psychotic breaks**
  - **Violent behaviors**



CANNABIS RUDERALIS



CANNABIS SATIVA



CANNABIS INDICA



**BHO is 710 is Oil**

**710**

**OIL**





# **Marijuana Clothing**

**Top No Evil**

**Live on Pot**

# THC

- **Tetrahydrocannabinol**
- Psychoactive ingredient in marijuana (**high**)
- Can cause paranoia or anxiety
- Mind altering
- Induce sleepiness



# CBD

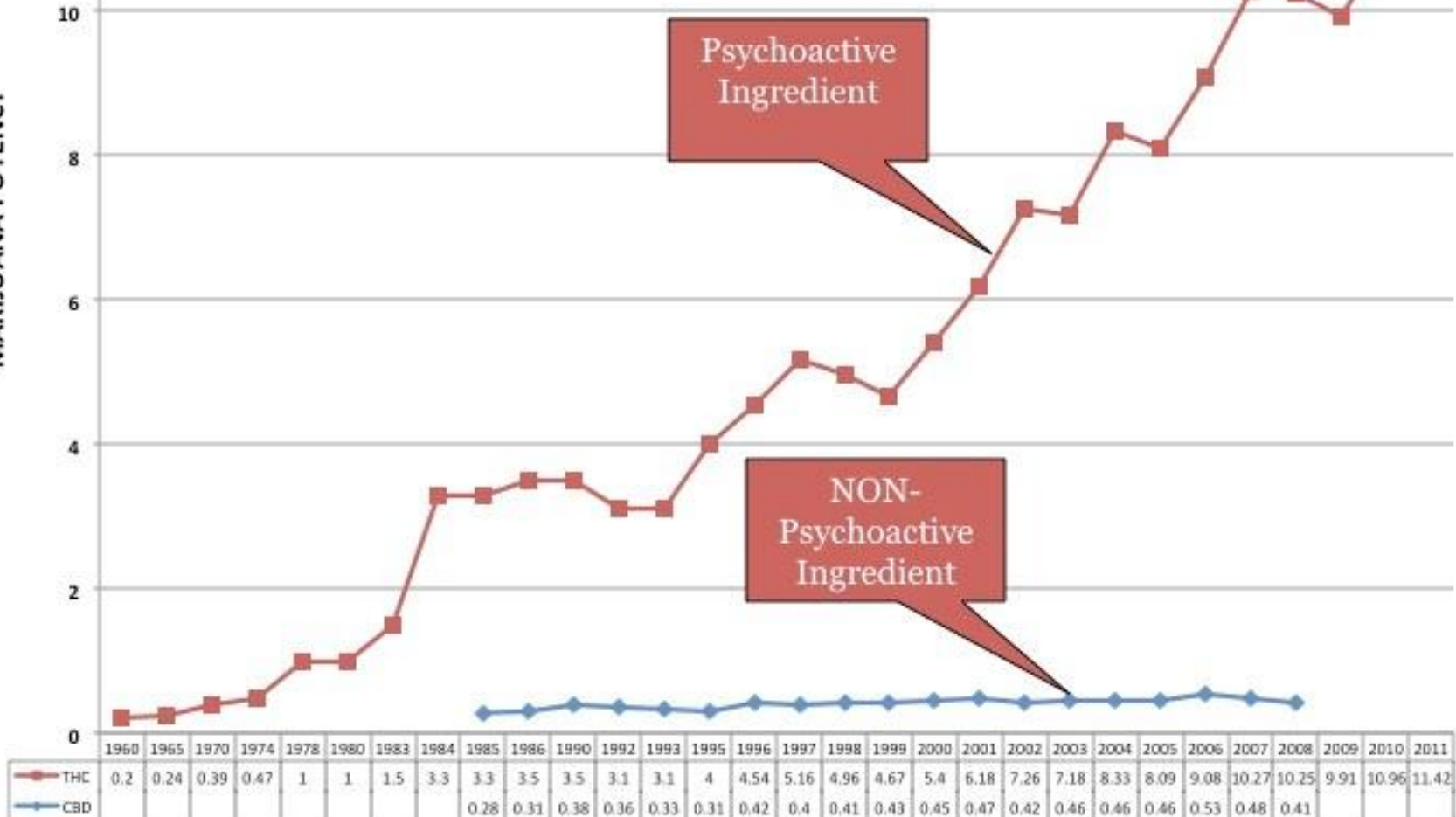
- **Cannabidiol**
- AKA: Medical Marijuana
- Non-psychoactive (**no high** – does not act on same receptors as THC)
- May reduce anxiety
- May have antipsychotic properties - reducing the psychosis-like effects of THC
- Promote wakefulness



# Average **THC** and **CBD** Levels in the US: 1960 - 2011

Mehmedic et al., Potency Trends of D-9 THC and Other Cannabinoids in Confiscated Cannabis Preparations from 1993 to 2008, J Forensic Sci, September 2010, Vol. 55, No. 5. See <http://home.olemiss.edu/~suman/potancy%20paper%202010.pdf>.

MARIJUANA POTENCY



# CBD vs THC

- Need regulation differentiating
- CBD is only medical marijuana
- High level THC is dangerous
- THC is legal under current regulation
- THC damages developing brains
- Today's THC cooks and acts like meth

# How Much is Too Much?

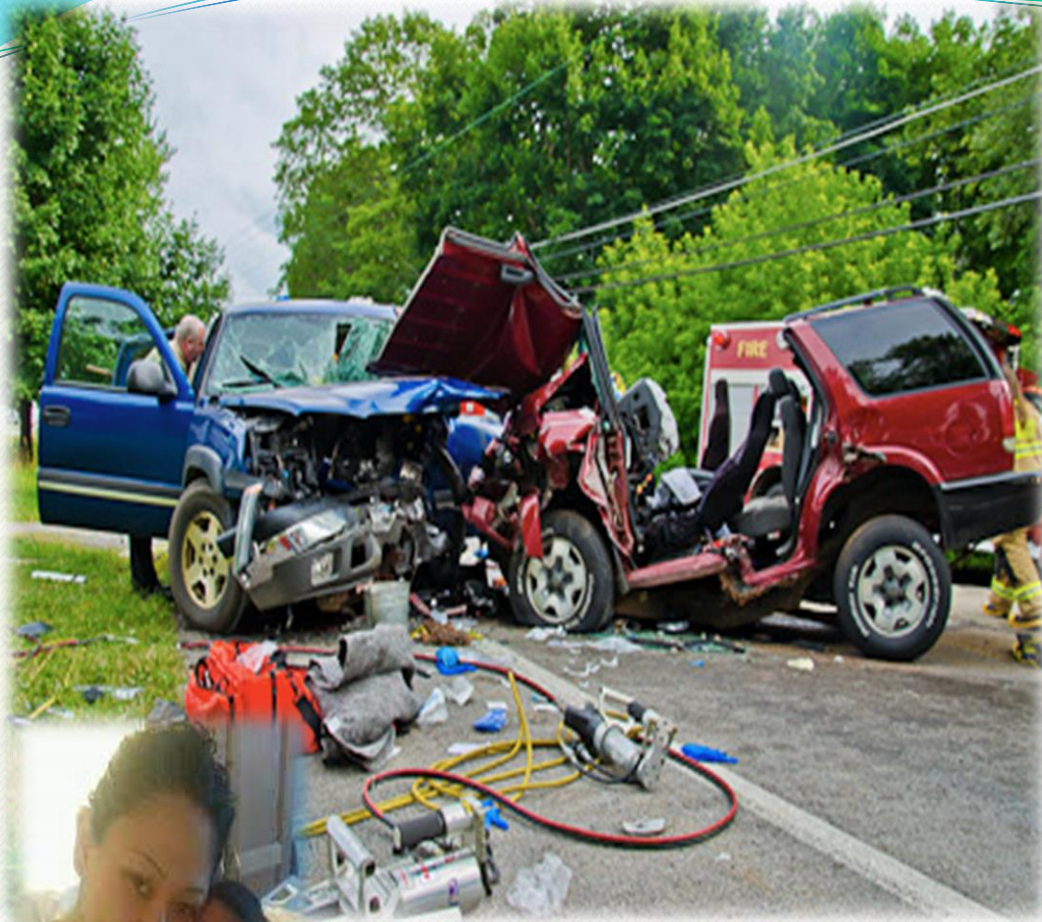


100%  
THC  
Allowable



# What's happening in states with legalized marijuana?

- **Colorado now has the highest use rate of marijuana in the nation.** Teen illicit use is 74% higher in Colorado than the national average—a 20% increase since 2012. ([\*2015 SAMHSA Report\*](#))
- Increase in marijuana-related traffic fatalities, hospitalizations, and emergency room visits as well as marijuana-related calls to poison control centers. ([\*Rocky Mountain HIDTA\*](#))
- In marijuana-friendly states, **accidental ingestion by youth is up over 600 percent.** ([\*Journal of Clinical Pediatrics\*](#))
- **Black market is thriving, hiding in plain sight in Colorado.** A recent AP report says: “Illegal drug traffickers are growing weed among [Colorado’s] sanctioned pot warehouses and farms, then covertly shipping it elsewhere and pocketing millions of dollars from the sale.” ([\*AP Jan. 2016\*](#))



Tanya Guevara  
& Baby, killed  
by marijuana  
impaired driver

## Colorado State Patrol

77% of total  
DUID involve  
Marijuana

41% of DUID  
involve  
Marijuana





Almost 60 percent of new  
marijuana users each year are  
under age 18



9 percent of 8th graders have vaped in  
the past 30 days

U.S. NSDUH 2014 Survey Results 



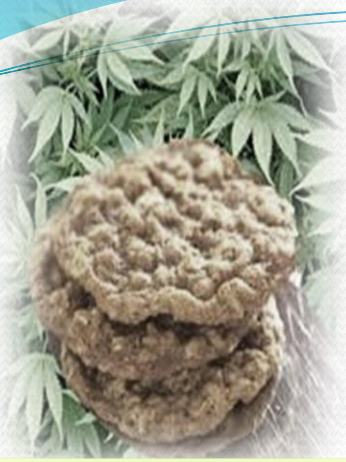


LOOK Like  
**BARBIE**  
SMOKE Like  
**MARLEY**



*jm*





April 2014  
Levy Thamba  
Pongi, 19 year old  
student, leapt to  
his death after  
consuming  
marijuana-infused  
cookie while  
visiting Colorado



<http://www.wusa9.com/story/news/2014/04/03/pot-cookie-marijuana-student-fall-death/7252109/>





March 2015

While on a ski vacation in Colorado, 23 year old Luke Goodman ate several marijuana-infused candies. Shortly after, he died of a self-inflicted gun shot wound to the head.



*jm*



# ALASKA

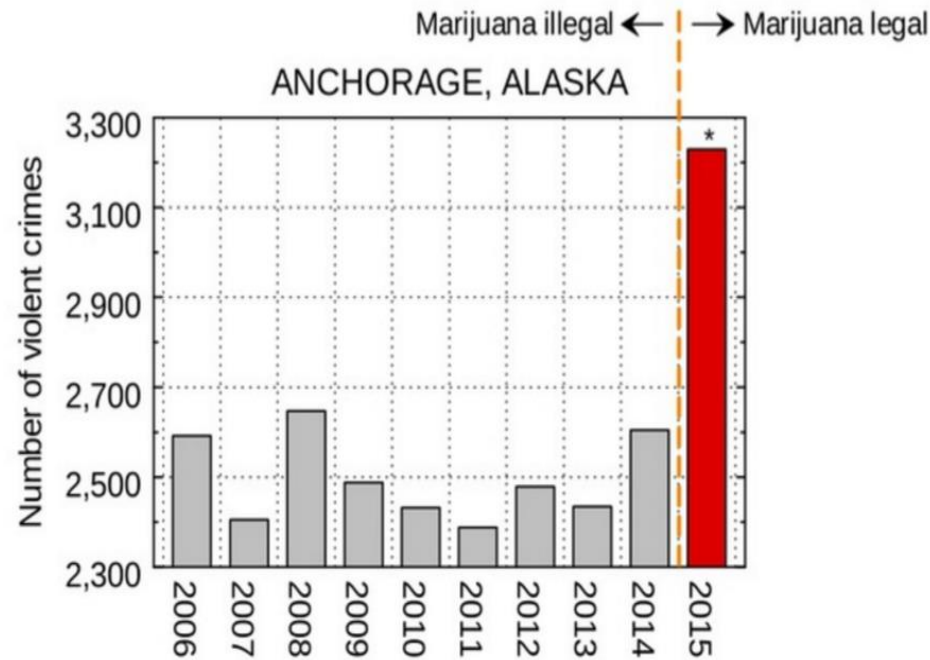
Find out why

According to the FBI's [Preliminary Semiannual Uniform Crime Report](#) for the first six months of 2015, the number of violent crimes in Anchorage (the only city reporting for Alaska)

increased 34% compared to the same period in 2014. Murders were up 167%, and aggravated assaults increased 32% versus the first six months of 2014.

The increase in violent crimes that occurred at the same time pot was legalized is striking. Between 2006 and 2014, the number of violent crimes was stable.

Once marijuana legalization took place in early 2015, the crime rate went up dramatically.



Data source: FBI Crime Statistics, 2016, <https://www.fbi.gov/stats-services/crimestats>  
\* Value for 2015 extrapolated from first six months of year

# Legal pot blamed for some influx of homeless in Denver 2014



**Haven of Hope:** 500%  
rise over normal in  
homeless in summer 2014  
(50 to 300)

**Salvation Army:** 33% rise  
since 2014 compared to  
2013

**Salvation Army:** Survey  
25% increase related to  
marijuana

# Looking Outside the State for Qualified Employees



“ Jim Johnson said his company has encountered so many job candidates who have failed pre-employment drug tests because of their THC use ... it is actively recruiting construction workers from other states. ”

GE Johnson

<http://gazette.com/drug-use-a-problem-for-employers/article/1548427>





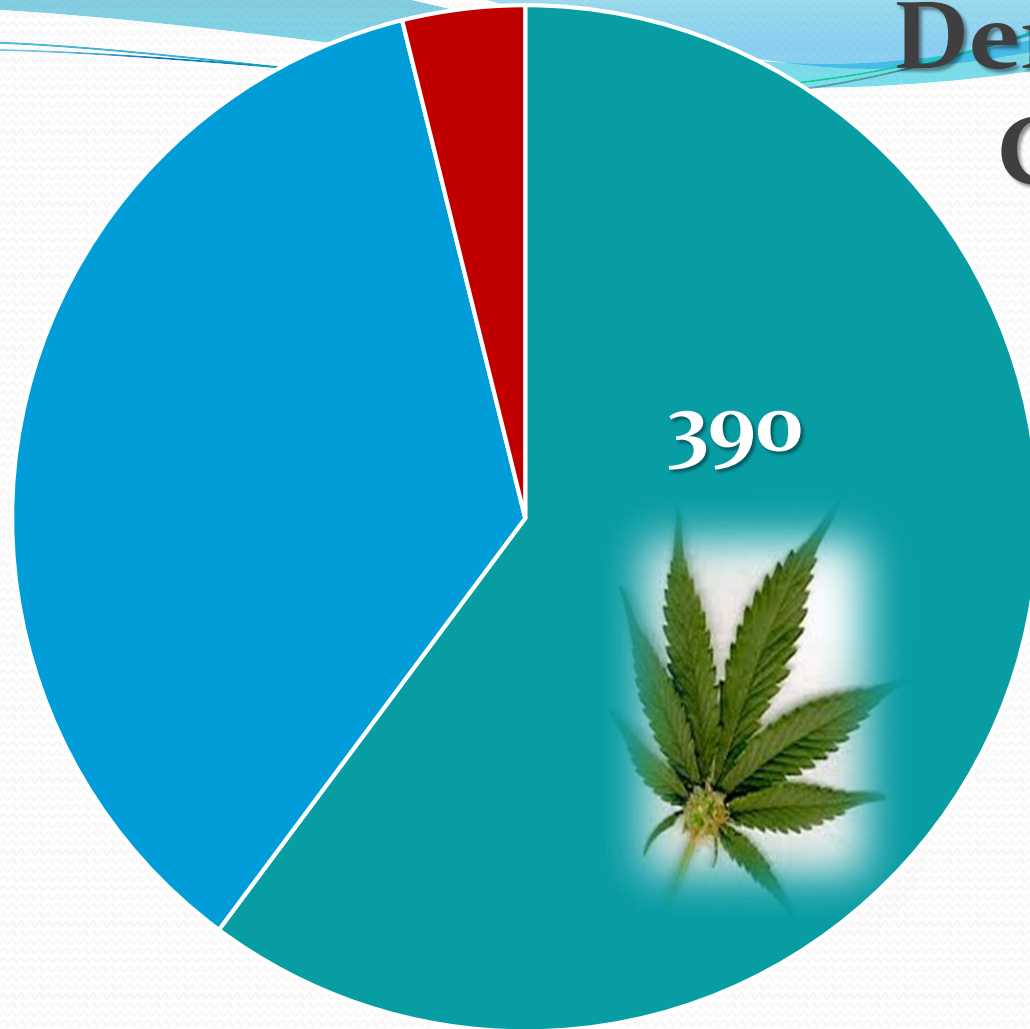
# Denver, CO



25



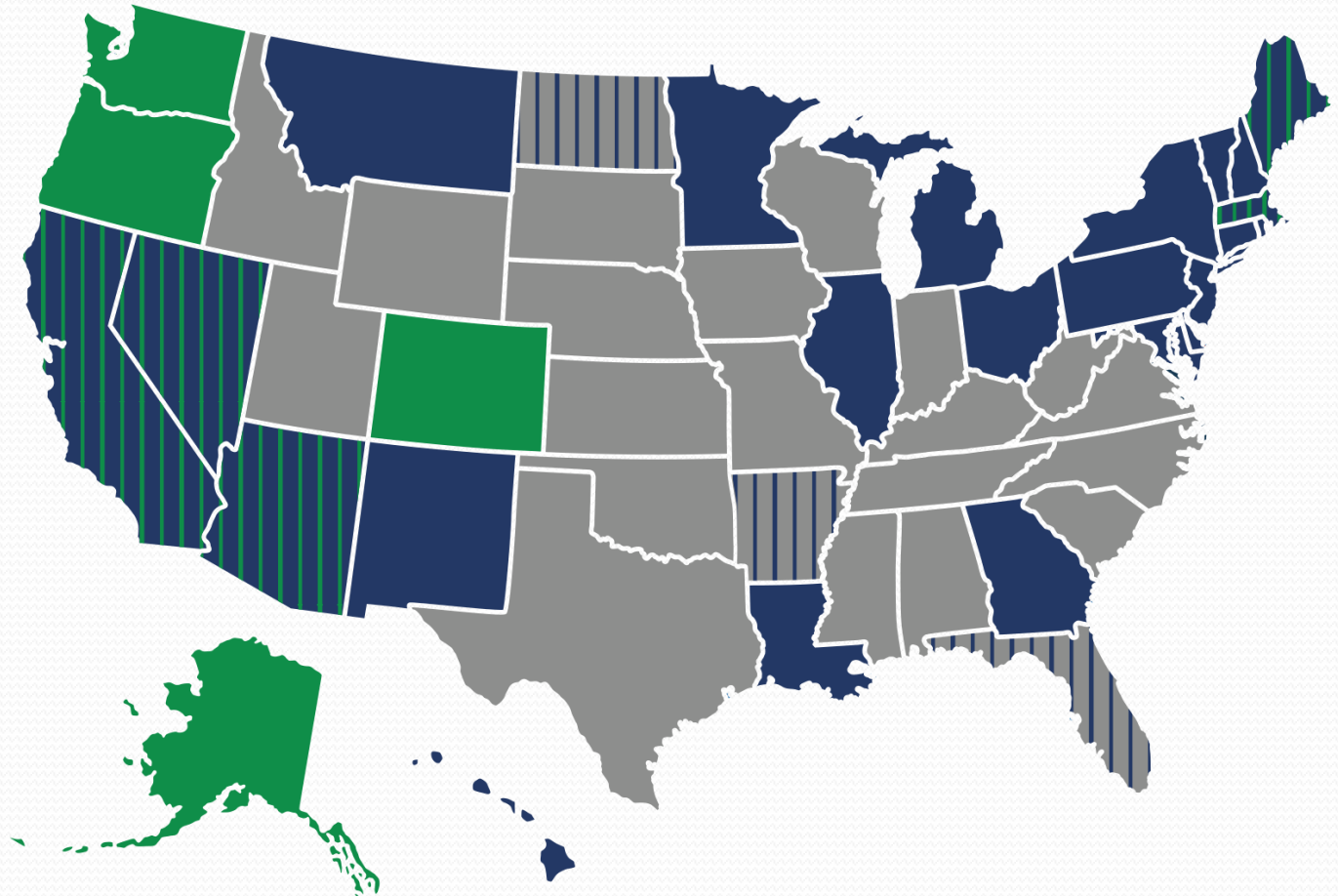
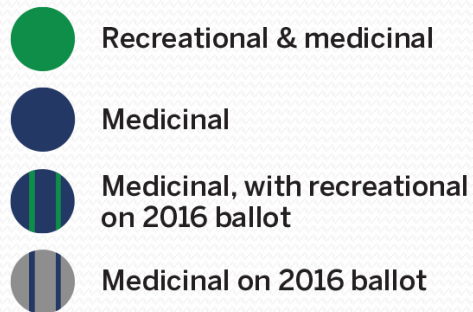
233



- Marijuana Businesses
- Starbucks
- McDonalds

# The Pot Industry Coast to Coast

Marijuana is legal in some form in more than two-dozen states, with more states preparing to consider legalization. Industry growth comes with an array of safety concerns, which some observers say points to the need to develop pot-specific consensus codes and standards.



# Rx Drug Use – An Epidemic

- **“Prescription drug abuse is the nation's fastest-growing drug problem”**

White House Office on National Drug Policy

- 1.3 million emergency room visits in 2010, a 115% increase since 2004
- **Overdose deaths on opioid pain relievers surpassed deaths from heroin and cocaine for the first time in 2008**





At least  
**HALF**



of all opioid overdose  
deaths involve a  
**prescription opioid.**



Almost **2 million**  
Americans abused  
or were dependent  
on prescription  
opioids in 2014.

# US loves Rx



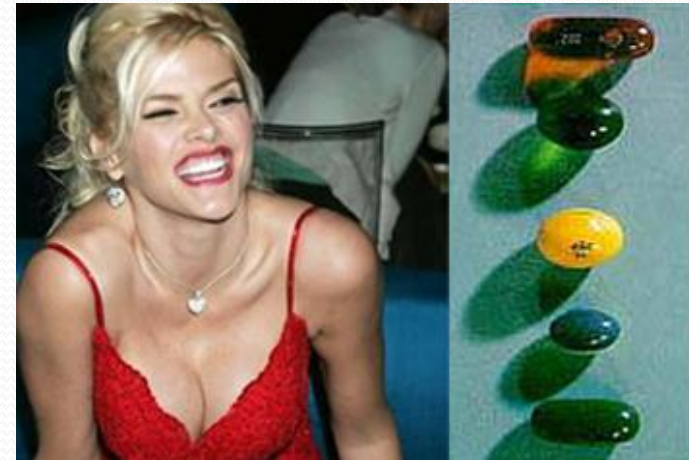
# Rx by the #s



- As many as **1 in 4 people** who receive prescription opioids long term for non-cancer pain in primary care settings struggles with addiction
- **Every day**, over 1,000 people are treated in emergency departments for misusing prescription opioids



# Accidental Rx Overdoses





# August, 2016

## Football Player Found Dead



Zach  
Hemmila

**NEW AT 11**

**TAKING  
ACTION**

**WILDCATS' STARTING CENTER FOUND DEAD**  
BODY FOUND SUNDAY; COACHES NOTIFIED TEAM THIS MORNING

**abc 15**  
**ARIZONA**  
11:00 102°

# The Kindergarten Teacher????



home : latest news : latest news



March 20, 2014

12/9/2013 6:26:00 PM

## Teacher, supplier face drug allegations

Doug McMurdo  
Miner Staff Reporter

LAKE HAVASU CITY - A kindergarten teacher was arrested Friday and charged with assorted drug crimes following a month-long multi-agency undercover operation.

There is no evidence to suggest Stefanie Courson, 42, a kindergarten teacher at Havasupai Elementary School, sold drugs at the school or that "other employees or students are involved," according to Lake Havasu City Police spokesman Sgt. Troy Stirling.

Following a tip from a caller who told police Courson was selling drugs, members of the Mohave Area General Narcotics Enforcement Team mounted an operation. MAGNET consists of detectives from every law enforcement agency in the county, including the Arizona Department of Public Safety and prosecutors with the Mohave County Attorney's Office.



**STEFANIE  
COURSON**



**MICHAEL  
STUCKER**

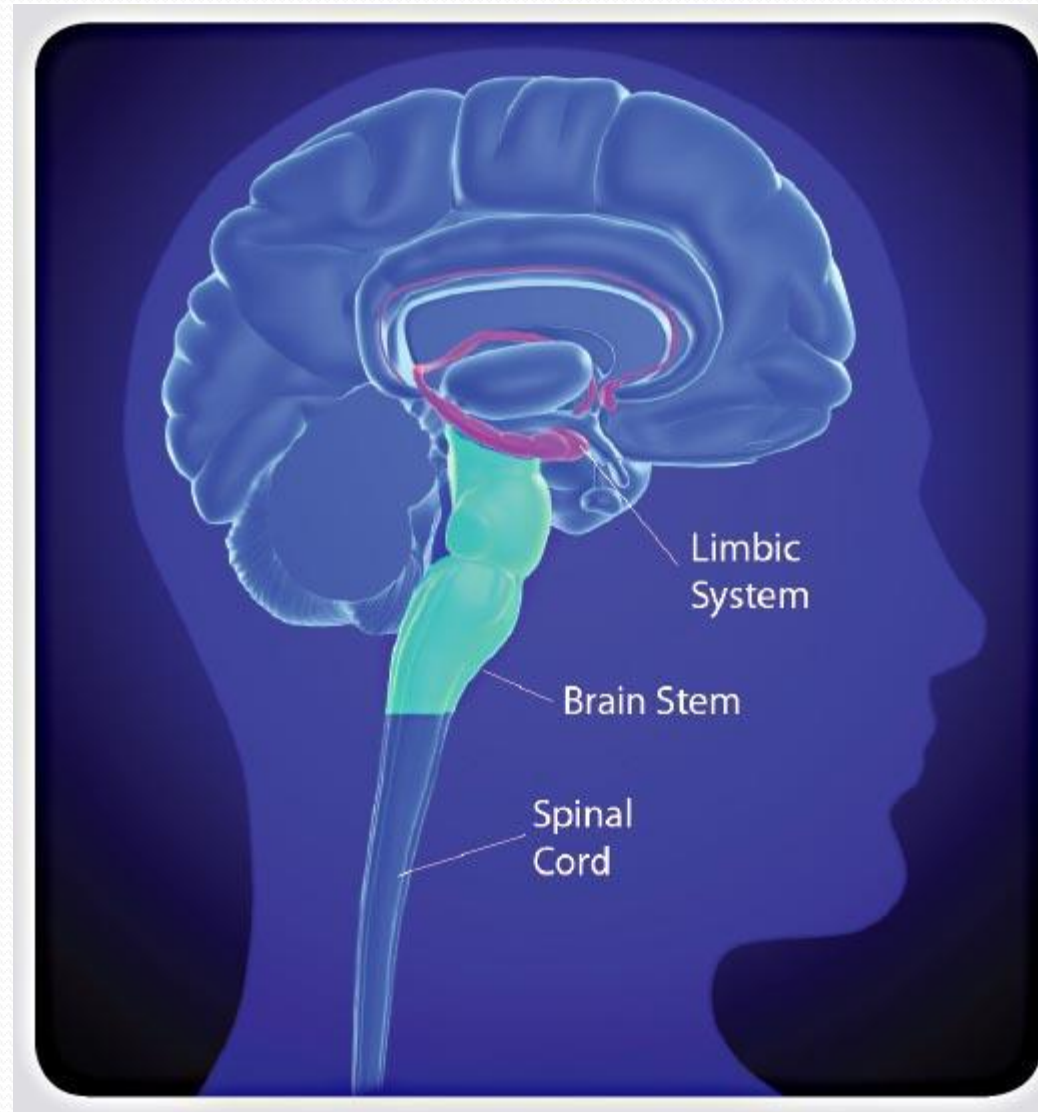
# Opioid side effects, even when taken as directed

- **Tolerance**—you may need to take more of a medication for the same pain relief
- **Physical dependence**—symptoms of **withdrawal** when the medication is stopped
- Increased sensitivity to pain
- Constipation
- Nausea, vomiting, and dry mouth
- Sleepiness and dizziness
- Confusion
- Depression
- Low levels of testosterone that can result in lower sex drive, energy, and strength
- Itching and sweating



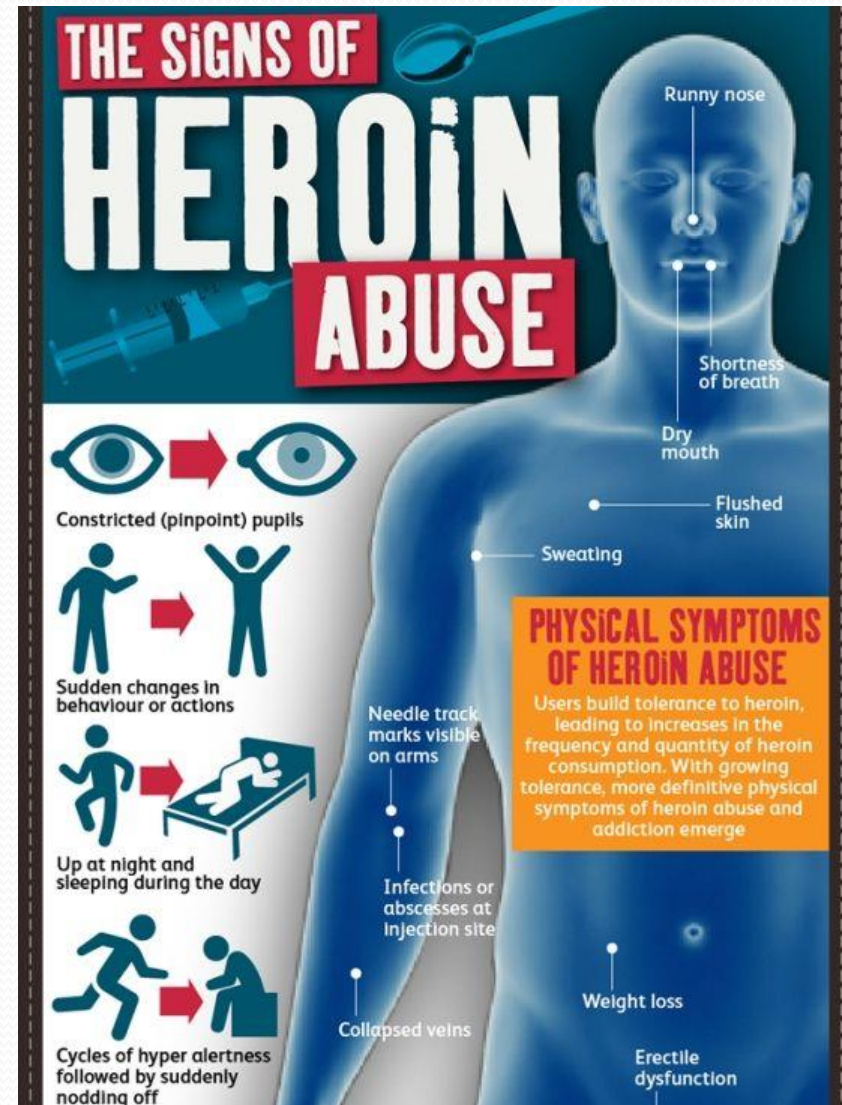
## Opioids Act on Many Places in the Brain and Nervous System

- Opioids can **depress breathing** by changing neurochemical activity in the brain stem, where automatic body functions such as breathing and heart rate are controlled
- Opioids can increase feelings of **pleasure** by altering activity in the limbic system, which controls emotions
- Opioids can **block pain** messages transmitted through the spinal cord from the body



# Signs of Use

- “On the nod”
- Tired
- “Doped out” “Dope sick”
- Cold, clammy skin
- Short, shallow breath
- “pinpoint” pupils



# National Institute on Drug Abuse (NIDA) 2015

- The number of prescriptions written for opioid pain relievers in the U.S. has risen from around **76 million a year in 1991** to nearly **207 million a year in 2013**.
- In August, 2015, the FDA granted approval to Purdue Pharma to prescribe the powerful and often abused opioid **OxyContin** for **patients as young as 11**.



# Opioids drive continued increase in drug overdose deaths

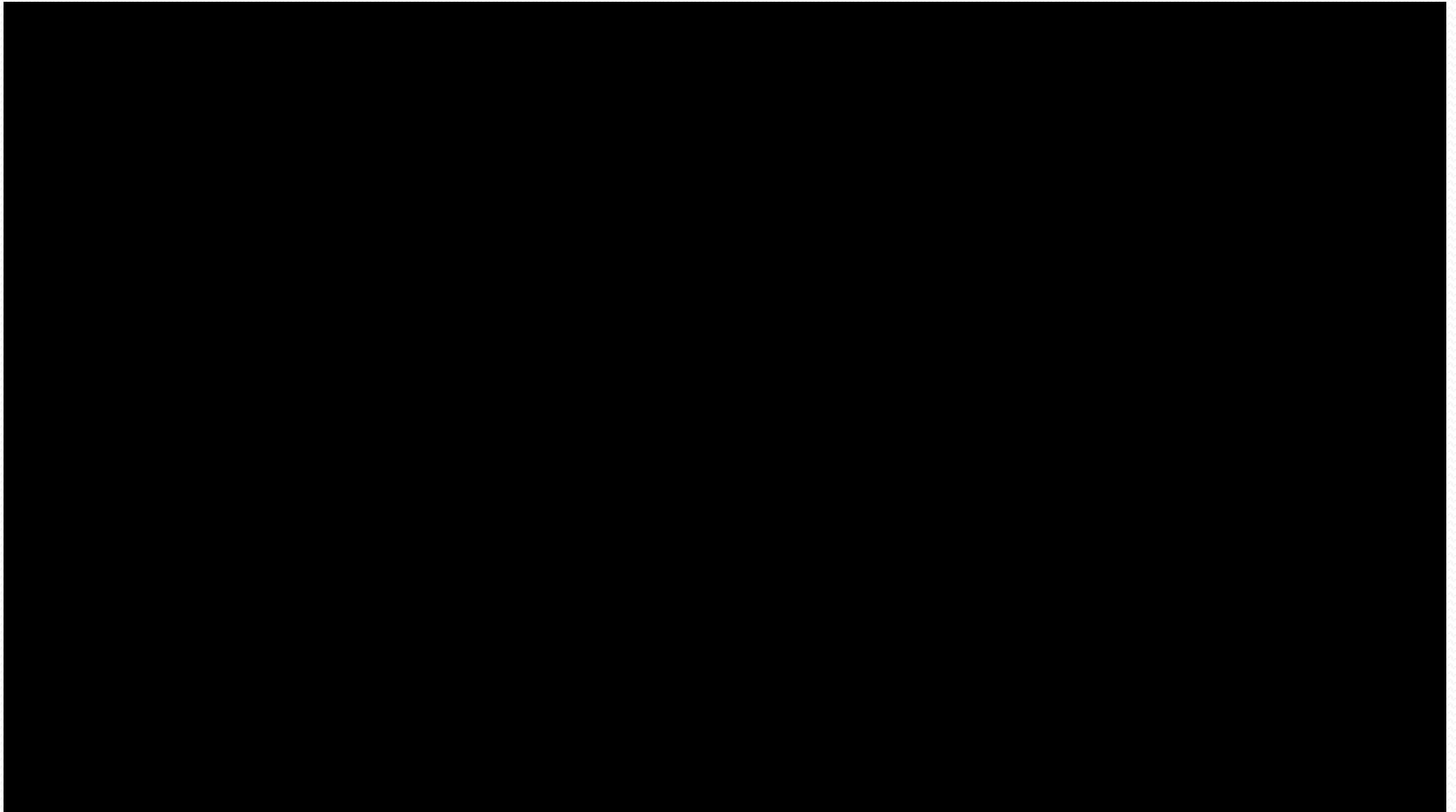
Drug overdose deaths increase for 11th consecutive year

## ● **Drugs Deaths on the Rise in the US**

- 6,100 in 1980
- 16,849 in 1999 (4,030 opioid analgesics)
- 36,500 in 2008
- 38,329 in 2010 (16,651 opioid analgesics)
- 43,982 in 2013 (16,235 opioid analgesics)
- 47,055 in 2014 (18, 893 opioid analgesics)
- 52,404 in 2015 (33,091 opioid analgesics)

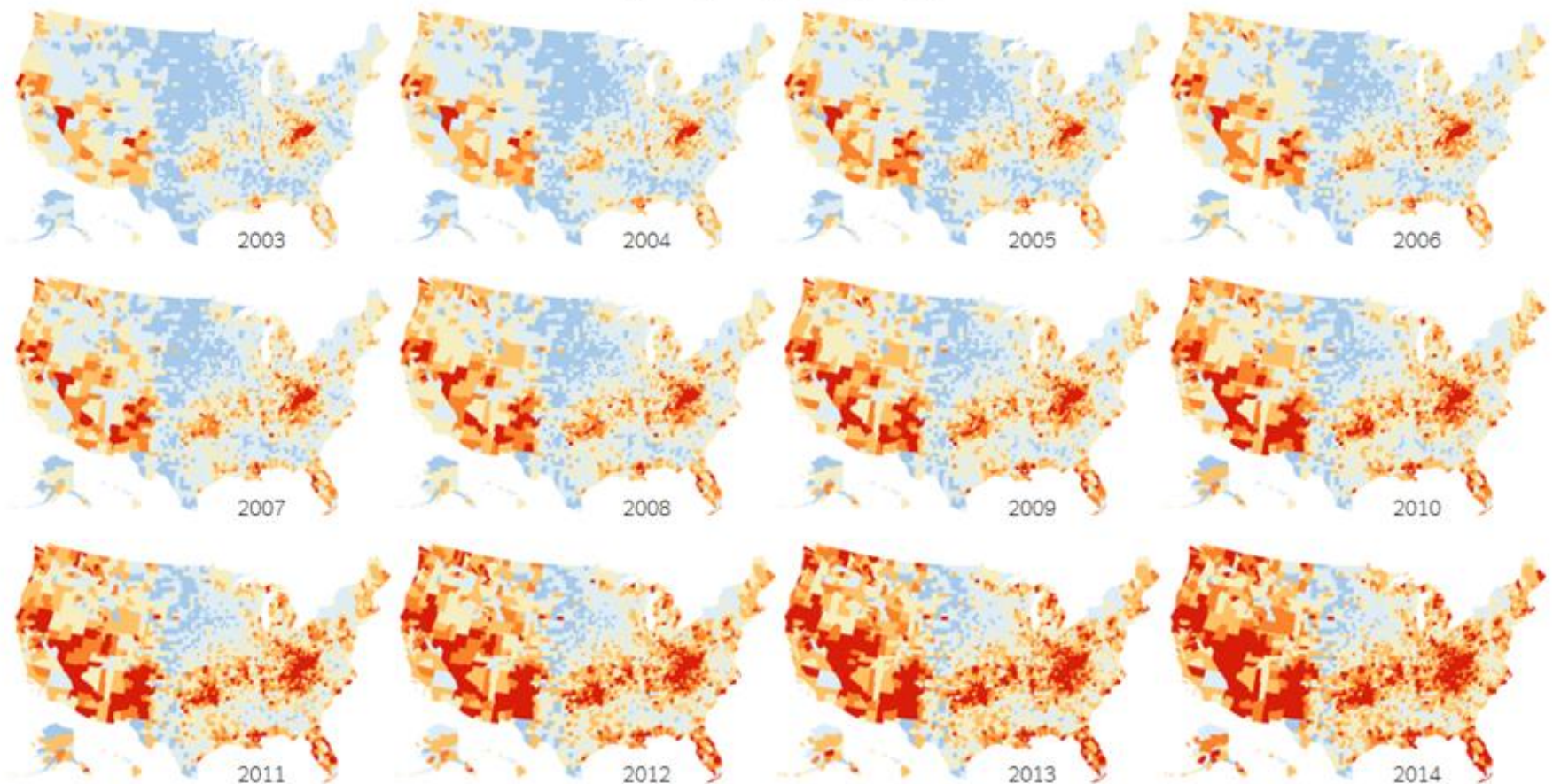
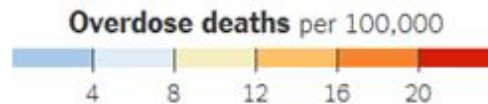
- In 2012 the number-one cause of death in 17 US states was prescription drug abuse (Source: American Society of Interventional Pain Physicians)

# **Overdoses now leading cause of death of Americans under 50**



# How the Epidemic of Drug Overdose Deaths Ripples Across America

By HAEYOUN PARK and MATTHEW BLOCH JAN. 19, 2016





# Goals

An estimated **1 out of 5** patients with non-cancer pain or pain-related diagnoses are prescribed opioids.

- Must improve safety of prescribing
- Reduce harms such as opioid use disorder or overdose



**START LOW. GO SLOW.**

[www.cdc.gov](http://www.cdc.gov)

GUIDELINE FOR PRESCRIBING  
OPIOIDS FOR CHRONIC PAIN



# The Rx Nation

- Every day **2,700 teens** try a prescription drug to get high for the first time

2010

Partnership for Drug Free America,

In 2010, nearly **60 percent of the drug overdose deaths (22,134) involved pharmaceutical drugs**

- Opioid analgesics, such as oxycodone, hydrocodone, and methadone, were **involved in about 3 of every 4 pharmaceutical overdose deaths (16,651)**, confirming the predominant role opioid analgesics play in drug overdose deaths

# Hydrocodone



## Heath Ledger died of accidental overdose

28-year-old actor had oxycodone, anti-anxiety, sleep aids in his system

### BREAKING NEWS



Associated Press  
updated 26 minutes ago

NEW YORK - Heath Ledger died of an accidental overdose of painkillers, sleeping pills, anti-anxiety medication and other prescription drugs, the New York City medical examiner said Wednesday.

The cause of death was "acute intoxication by the combined effects of oxycodone, hydrocodone, diazepam, temazepam, alprazolam and doxylamine," spokeswoman Ellen Borakove said in a statement.

The drugs are the generic names for the painkiller OxyContin, the anti-anxiety drugs Valium and Xanax, and the sleep aids Restoril and Unisom. Hydrocodone is another name for ibuprofen.

### Video



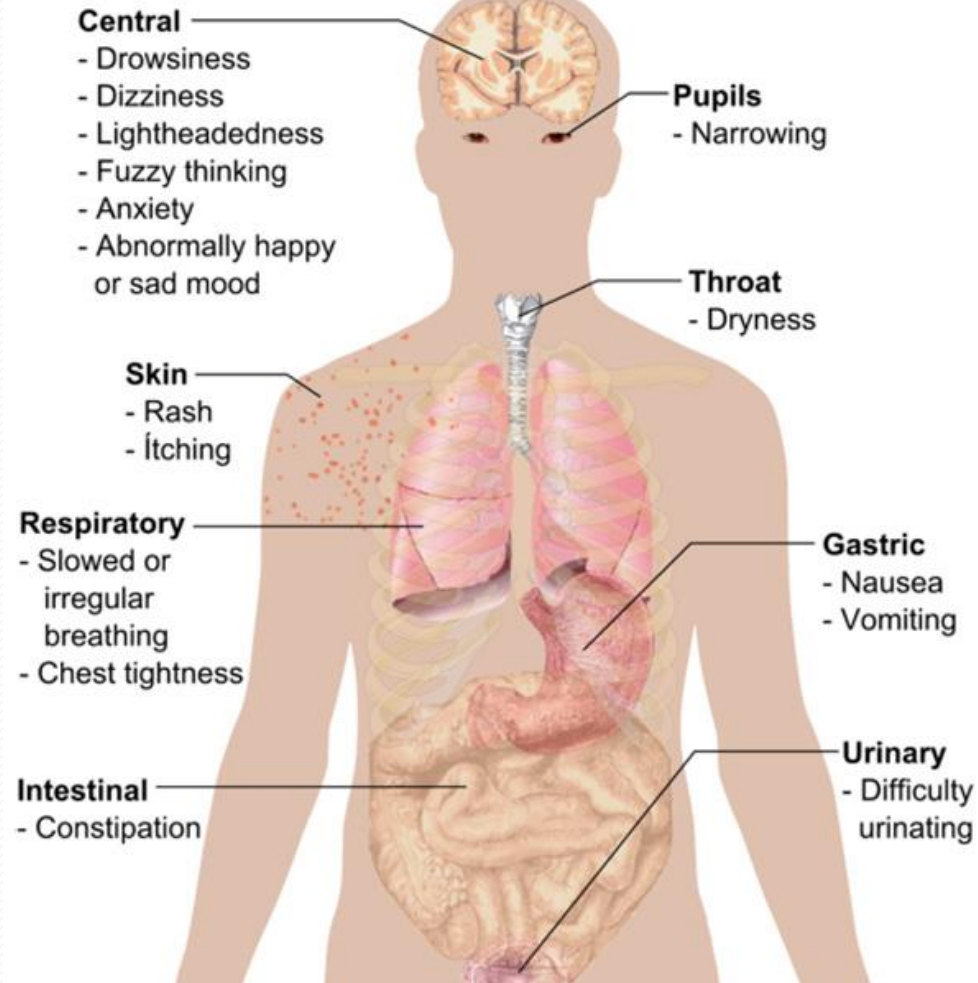
Launch

#### Ledger death ruled accidental overdose

**UPDATED** - Feb. 6: Actor Heath Ledger died of an accidental overdose of prescription drugs, the New York City medical examiner says. WNBC's Jonathan Dienst reports.

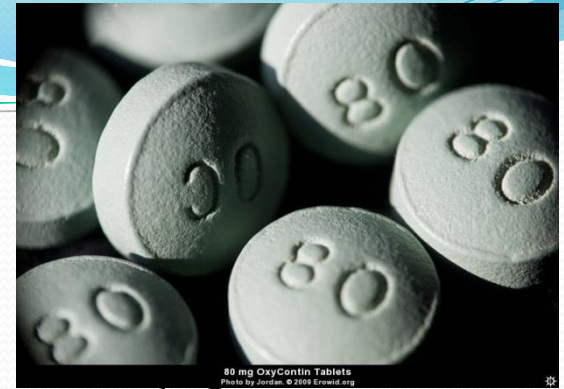
MSNBC

## Side effects of Hydrocodone




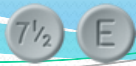







# Oxycodone



- OxyContin most recognized and abused form
- Prescribed to relieve pain
- Twice as strong as morphine
- Time released (8-12 hours)
  - Pills crushed and snorted or cooked down and injected to break down time release component
- Strong, heroin-like, euphoric effects
- Expensive
  - Dollars to milligrams: 10, 20, 40, 50 (ex)
- Other variations: Percocet and Percodan

# Oxymorphone “Opana”

 5 mg NDC Number 63481-812-60	 7.5 mg NDC Number 63481-813-60	 10 mg NDC Number 63481-814-60	 15 mg NDC Number 63481-815-60
 20 mg NDC Number 63481-816-60	 30 mg NDC Number 63481-817-60	 40 mg NDC Number 63481-818-60	

- Powerful semi-synthetic opioid analgesic (painkiller)
- \$25-\$30 a pill
- Strategic goal of Endo Pharmaceuticals was to market Opana to become the #2 painkiller for treating severe and long term pain after OxyContin
- Doctors begin prescribing it over OxyContin
- Injecting Opana – according to FDA “abuse deterrent” coating makes it easier to inject
  - Increased HIV/AIDS cases as a result

# Zohydro ER

FDA approved


- High dose hydrocodone narcotic painkiller
- Zohydro contains as much as **50 mg of hydrocodone**
- **Manufactured as a powder in a capsule**, rather than a pill – easy to abuse
- **10 times more powerful than Vicodin**
- US presently consumes 99% of worlds hydrocodone



**Zohydro<sup>ER</sup>**  
(hydrocodone bitartrate)  
EXTENDED-RELEASE CAPSULES

**1<sup>st</sup>** Oral, Extended Release Hydrocodone without Acetaminophen for Treating Chronic Pain

PDUFA Date March 1, 2013





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*The Prescription For Responsible Medicine Storage*



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medicine and Rx  
drugs



Similar product, different brand



Make EVERY Day a  
Drug Take-Back Day!

**MedReturn**  
Drug Collection Unit



- **Medreturn.com**
- **ACPA.net**
- MedReturn, LLC is committed to providing a safe, secure and environmentally friendly way to help law enforcement agencies and communities collect unwanted or expired household medication, including prescriptions, over-the-counter drugs and unused pharmaceuticals
- **1-877-218-0990**
- [AZ drop box locations](#)

Make  
**EVERY** Day a  
Drug Take-Back Day!

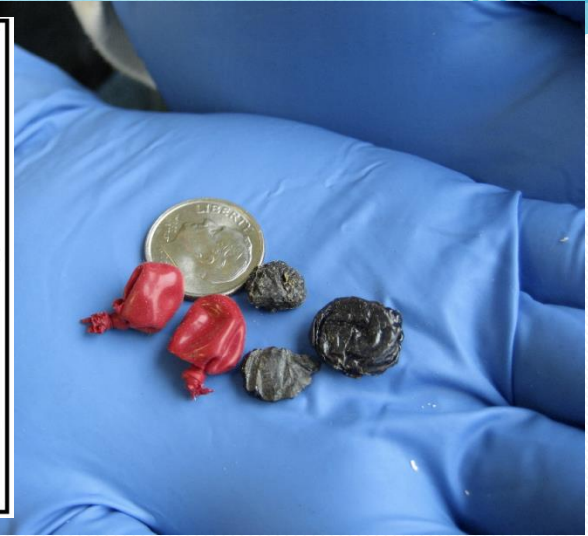
**MedReturn**

# Why go from Rx to Heroin?

- Cheaper
- Same effects
- Addiction drives behavior



# Heroin



- Pure heroin is a white powder with a bitter taste that predominantly originates in South America, Afghanistan and Southeast Asia
  - **South American heroin has become the most prevalent type available in the US**
    - Particularly in the Northeast, South and Midwest
- **“Black tar” heroin is sticky like roofing tar or hard like coal** and is predominantly produced in Mexico and sold in U.S. areas west of the Mississippi River
  - Dark color from crude processing methods leaving behind impurities

# Heroin



- **Illegal, highly addictive drug processed from morphine**, a naturally occurring substance extracted from the seed pod of certain varieties of poppy plants
- **Most widely abused illicit narcotic in US**
- Physical tolerance build up is fast
  - Use to avoid pain of withdrawal “getting sick” seek to “get well”
- **Purity levels vary – too much pure heroin can result in respiratory arrest and death**
  - Overdose is a daily possibility

# Heroin Purity

- In 1980s = 3.6% pure
- 1990 = 18% pure
- 1998 = 41% pure
- Today = 60-90% ???
- No longer have to inject heroin to feel the effect. Purity so high effects felt by snorting or smoking
- 1996-1998 – 19 young people die of heroin overdoses in Plano, Texas
  - Purity levels ranged up to 75%





# “Doda” or “Dode” – Poppy Husk / Pod Tea

- Doda (aka Dode) is a **powder** made **by crushing opium poppy husks**
- Typically prepared as an herbal tea or added to water or tea
- Effects: **euphoria, drowsiness, warming & flushing, pupillary constriction; higher doses can lead to nausea, itching, vomiting, respiratory arrest leading to death**
- Openly sold in foreign countries & on the Internet
- "the poor man's heroin" because it's a narcotic derived from the same plant: **the opium poppy**



# In AZ... Heroin mimics Oxy



Heroin in the Heartland – CBS News 60 Minutes

# Heroin-Related Overdose Deaths

- Heroin-related overdose deaths have more than quadrupled since 2010
- From 2014 to 2015, heroin overdose death rates increased by **20.6%**, with nearly **13,000** people dying in 2015
- In 2015, males aged 25-44 had the highest heroin death rate at 13.2 per 100,000, which was an increase of 22.2% from 2014



# Who is using Heroin?

## Heroin Use Has INCREASED Among Most Demographic Groups

	2002-2004*	2011-2013*	% CHANGE
<b>SEX</b>			
Male	2.4	3.6	50%
Female	0.8	1.6	100%
<b>AGE, YEARS</b>			
12-17	1.8	1.6	--
18-25	3.5	7.3	109%
26 or older	1.2	1.9	58%
<b>RACE/ETHNICITY</b>			
Non-Hispanic white	1.4	3	114%
Other	2	1.7	--
<b>ANNUAL HOUSEHOLD INCOME</b>			
Less than \$20,000	3.4	5.5	62%
\$20,000-\$49,999	1.3	2.3	77%
\$50,000 or more	1	1.6	60%
<b>HEALTH INSURANCE COVERAGE</b>			
None	4.2	6.7	60%
Medicaid	4.3	4.7	--
Private or other	0.8	1.3	63%

\*Annual average rate of heroin use (per 1,000 people in each group)

Source: CDC

# Heroin use is part of a larger substance abuse problem.

Nearly all people who used heroin also used at least 1 other drug.

Most used at least **3** other drugs.

**Heroin** is a highly addictive opioid drug with a high risk of overdose and **death** for users.

## People who are addicted to...



ALCOHOL

are

**2x**



MARIJUANA

are

**3x**



COCAINE

are

**15x**



Rx OPIOID PAINKILLERS

are

**40x**

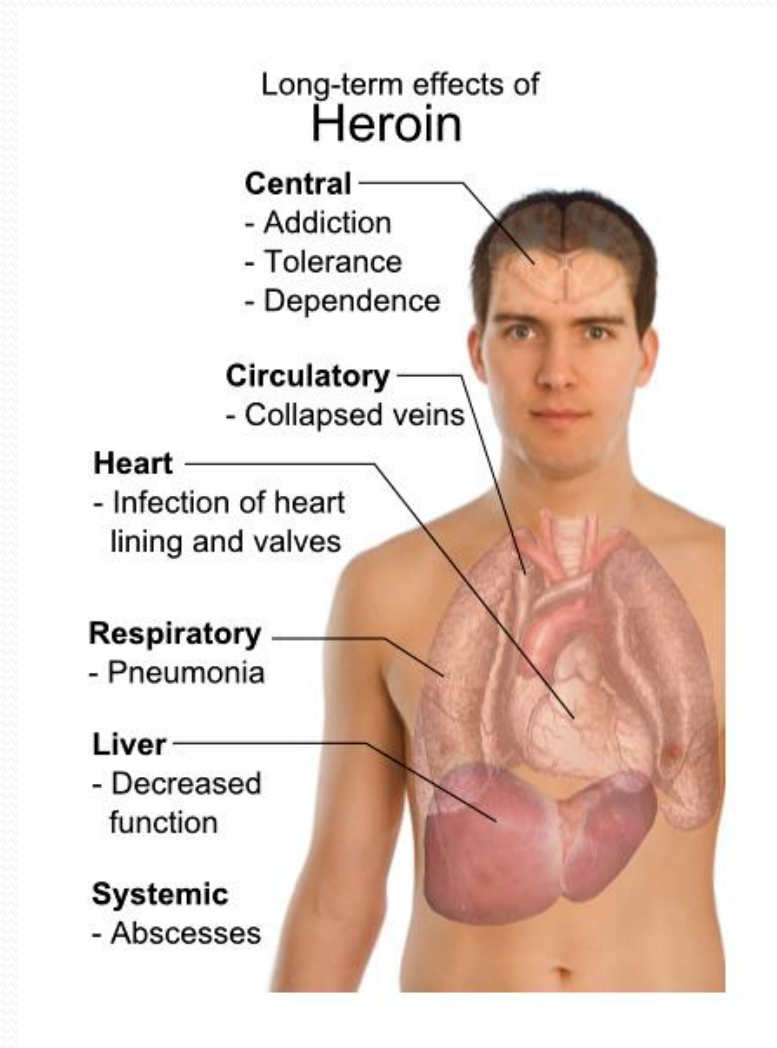
**...more likely to be addicted to heroin.**

SOURCE: National Survey on Drug Use and Health (NSDUH), 2011-2013.

# Withdrawal

## ● Symptoms

- Restlessness
- Muscle and bone pain
- Insomnia
- Diarrhea and vomiting
- Cold flashes with goose bumps (“cold turkey”) and kicking movements (“kicking the habit”)
- Users also experience severe craving for the drug during withdrawal, which can precipitate continued abuse and/or relapse





# America's Heroin Epidemic:

<http://www.nbcnews.com/storyline/americas-heroin-epidemic>

6 Celebrities who struggled with Heroin use



# Heroin Overdoses caught on film

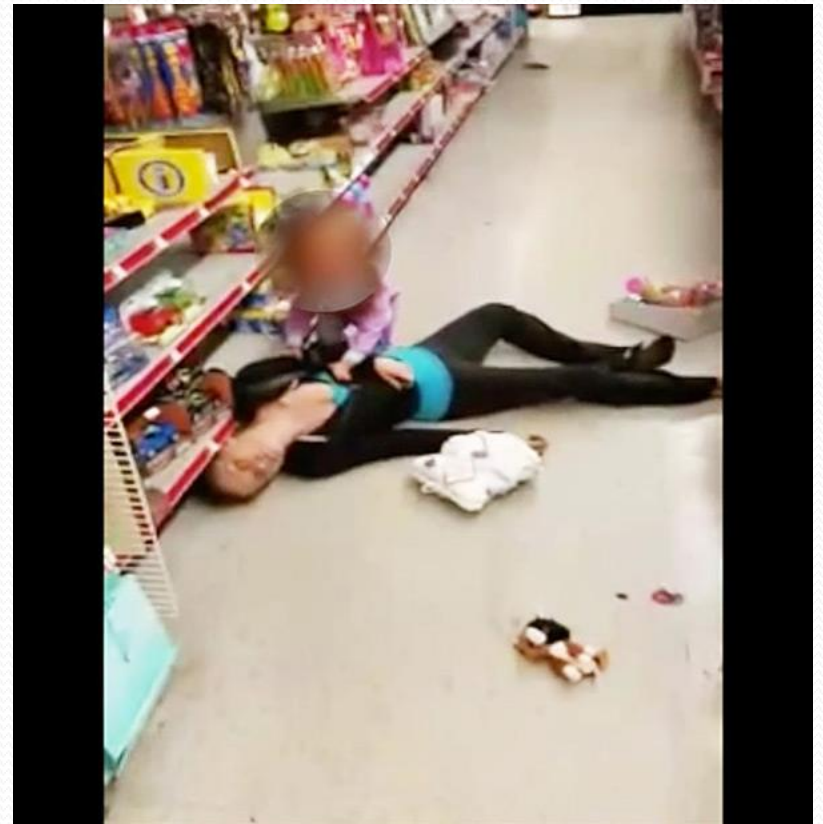
Ohio couple slumped over in front seat of vehicle due to heroin overdoses while 4 year old toddler sits in back seat

September 9, 2016



# Heroin use on the rise...

- Toddler cries in store aisle as mother overdoses on heroin
- Sept. 22, 2016





# Heroin Headlines

- **Parents Found Dead After Child Tells School She Couldn't Wake Them Up - Oct 5, 2016, 1:00 PM ET**
  - **Two residents were found dead in their home Monday evening after their 7-year-old daughter told a school employee that she was unable to wake them that morning, according to the Allegheny County Police Department**
  - **The girl told a school bus monitor that she did not want to go home because her parents "had not moved" for more than two days and had been "changing colors," according to Lt. Andrew Schurman of the Allegheny County Police Department**

# Another parent's overdose, another child in the back seat: A 'new norm' for drug users?

Oct. 28, 2016



# **Drug overdoses killed at least 43 since Memorial Day Weekend, Cuyahoga County**

Posted on June 7, 2017 at 2:27 PM – Cleveland, OH

- **Twenty-nine men and 14 women died in the 13-day period from May 26 to Wednesday**, according to data released Wednesday by the Cuyahoga County Medical Examiner's Office
- The statistics released Wednesday do not say how many of the 43 overdoses were caused by opioids, such as heroin and fentanyl, or other drugs such as cocaine
- The victims ranged in age from 21 to 68



# Heroin

## A Bad Batch?

- Heroin laced fentanyl
  - Fentanyl up to 100 times stronger than morphine
- 22 people died within a week in Pennsylvania (Feb. 2014)
- 28 more people in Philadelphia died after using heroin laced with the painkiller fentanyl between March 3 and April 20, the city announced May 12<sup>th</sup>, 2014
  - 22 to 53 years of age
- Sold as “Theraflu” or “Bud Ice”
- [The Dangers of Fentanyl-Laced Heroin - ABC News](#)
- [Actor’s Overdose Death Sheds New Light On Fentanyl-Laced Heroin Issue « CBS Pittsburgh](#)

# What is Fentanyl?

- Narcotic
  - It can treat severe pain.
- Potent
  - Up to 50 times stronger than heroin and 100 times stronger than morphine
- Controlled substance
  - High risk for addiction and dependence. Can cause respiratory distress and death when taken in high doses or when combined with other substances, especially alcohol.

# Desmethy Fentanyl

derivative of the painkiller Fentanyl

- Dangerous new street drug **40 times stronger than heroin**
- Police also seized 1,500 kilograms of ingredients that could produce at least 3 million more pills
  - “They were making one pill a second”
- The effects could be fatal

## PROJECT “SILENCIEUX” BY THE NUMBERS



COURTESY OF SPVM

A Montreal police investigation into the manufacturing of illegal synthetic drugs included the seizure of a drug 40 times stronger than heroin.

**2** arrests:  
Jason Berry, 30, and Patrick Provencher, 37.

**7** raids: Items were seized at seven Montreal locations.

**3** pill-making machines were seized.

**49** stamping machines, use to put logos on pills – including the Facebook “f” – were seized.

**269,825** illegal pills were seized. They include:

**3 kilograms of Desmethy Fentanyl powder**, a derivative of the painkiller Fentanyl, which is 80 times more powerful than morphine and 40 times stronger than heroin.

**12,400 pills of Desmethy Fentanyl**, the first seizure in Canada of this strong drug.

**19,341 pills of Ecstasy**

**13,654 pills of Oxycodone**

**61,471 tablets of speed** bearing the Facebook logo

**48,431 tablets of speed** bearing the Tim Hortons logo.

SOURCE: SPVM



# Fentanyl on the Rise

April, 2016



- The federal Drug Enforcement Administration issued a public safety alert Friday warning that fentanyl-related overdoses are “occurring at an alarming rate” and urging the public to take only drugs prescribed by a physician and from a reputable pharmacy.
- Some people believe they are buying Norco, a less potent opiate, but it is fentanyl
- 12 deaths and 52 overdoses in a week in N. California

# Remembering Prince

- Died April 21, 2016
- Age 57
- Accidental opioid fentanyl overdose
- The music icon suffered from hip pain throughout his career



# Fentanyl Crisis: Ohio Cop Accidentally Overdoses During Drug Call

- Ohio police officer accidentally overdoses on fentanyl after traffic stop
- Exposed to fentanyl on a call... used safety precautions
- When back at station, brushed off powder off of his shoulder and was face down on ground within hour
- Needed 4 doses of Narcan to be revived until at hospital



# Carfentanil

- **100 times stronger than fentanyl**
- Much stronger than heroin
- Carfentanil is used to sedate elephants
- It can be dangerous to even touch it without gloves
- More Narcan needed
  - 3-4 doses vs 1 dose for heroin
- In July, 2016 in Ohio, 176 overdoses in six days
  - currently 20 to 25 overdoses a day
- First Responders = more overdoses, more Narcan, more time spent on each call

# Carfentanil

- West Virginia – June 6, 2017
- What appears to be a Roxicodone pill... after analysis in lab turned out to be highly concentrated carfentanil
- The chemist advised that mere skin contact with the pill could prove fatal to anyone who does not have a high opioid tolerance



# W-18

- **First developed in a Canadian lab in 1984,** promising and potent — intended to relieve pain in a less addictive way
- **Synthetic opioid was the most powerful** in a series of about 30 compounds concocted at the University of Alberta
- Chinese chemist found it, and in labs halfway around the world started developing the drug for consumers in search of a cheap and legal high — one experts say is **100 times more potent than fentanyl and 10,000 stronger than morphine**



# Fentanyl laced spice in AZ

- Deadly Combo: spice and fentanyl
- Minimal amounts are deadly
- Hard to detect

# Fentanyl

- Different molecules
- Hard to detect
  - In medical setting used in IVs
  - Street stuff – all forms, online recipes and potent
- Multiple doses of Narcan needed to revive
- Multiple forms of fentanyl
- Chemical warfare concerns

# U-47700 a.k.a. Pink, U4

- Synthetic opioid obtained online as “RC”
- 80 deaths cited as U-47700 overdoses in 9 months
  - Drug banned in a dozen states
  - In Park City, Utah case, two 13-year-old children died
- Created in a lab by 20th-century pharmaceutical giant Upjohn
- New opioid blend more potent than morphine but supposedly less addictive
  - Intended to treat severe pain associated with cancer, surgery, or injury, but was never tested on humans



# Teen Deaths - Pink



in Park City Utah pain and disbelief I

# “Grey Death”

- Deadly combination of opioids
- Heroin, fentanyl, carfentanil and U4
- Looks like concrete mix
- Deaths in Alabama, Georgia, Ohio and California



# What ingredients are used to make methamphetamine?

- Over-the-counter cold and asthma medications containing **ephedrine** or **pseudoephedrine**, red phosphorous, red devil lye, hydrochloric acid, drain cleaner, battery acid, lantern fuel, muriatic pool acid, iodine and **antifreeze** are among the ingredients most commonly used





# Texas police seize 600 pounds of meth-laced lollipops

CNN, June 13, 2017

- \$1 million dollars worth of meth laced lollipops including Batman and Star Wars seized in Houston
- Intended to be distributed among children/sold to youth









# Made in the kitchen



# **“Krokodil”**

## **Desomorphine**

Active component is **codeine**  
Mixed w gasoline, paint  
thinner, hydrochloric acid,  
iodine and red phosphorous

Dirty cousin to **morphine**

Common in Russia and Germany  
– few reported cases in US

Similar effects to heroin  
3x times cheaper and easy to  
manufacture

**The "rotting" explains the drug's nickname.** At the injection site, which can be anywhere from the feet to the forehead, **the addict's skin becomes greenish and scaly, like a crocodile's**

Blood vessels burst and the surrounding tissue dies. **Gangrene and amputations are a common result**, while porous bone tissue, especially in the lower jaw, often starts to dissipate, eaten up by the drug's acidity







# End Results For Users

- Initially the injection site turns a yellow/green and the surrounding flesh begins to grow lesions
- Lesions break open into gaping wounds.
  - These areas are then highly susceptible to gangrene
- Continued use the flesh begins to eat away, sometimes to the bone
- Vital organs of the user's body began to decay and fail
- **Longest know life span of an addict is 2-3yrs**
  - One year is the typical length

# Kratom

- Opiate-like leaf from Southeast Asia
  - Chewed as a leaf or in a tea
- Legal and unregulated in US
- Street names:
  - Thang, Kakuam, Thom, Ketum, Biak
- Small doses acts as energy boost
  - Is in the coffee family
- Larger doses creates mellow, effect
  - Acting on opiate receptors



# Kratom Overdoses

- Hallucinations
- Delusions
- Listlessness
- Tremors
- Aggression
- Constipation
- Nausea





# What is Vivazen?



- Liquid drink shot
- Powerful natural herbal dietary ingredients include botanicals such as **White Willow, Passion Flower, California Poppy and Kratom**, a botanical from the jungles of the South Pacific and East Asia
- Potent ingredients help you to push through and overcome the slow-down that often comes with intense physical exertion
- Please note: Depending on your body weight, state of health and physiology, Vivazen can have a powerful effect. In some rare cases, certain first time users i.e. women or lighter/sensitive individuals have noticed that it effects them quite strongly

# 25i-NBOMe

commonly mistaken today as LSD

- 25i-NBOMe, 2-(4-iodo-2,5-dimethoxyphenyl)-N-(2-methoxybenzyl) ethanamine, (25i) is a **hallucinogenic drug** that was discovered in 2003 to aid in brain research
  - In November 2013, 25i was declared illegal by the DEA
  - **25i is purchased online in foreign countries where the drug is legal**
- 25i is commonly found on blotter paper, similar to LSD
  - **found in liquid, powder, or pill form**
  - Street names: 25i, N-Bomb, Wizard, Future, Smiles, and Dime
- Potent and inexpensive
  - **Paranoia, seizure, cardiac arrest, death**
  - Manufacturing/production not consistent – dosages vary greatly
  - **Marketed as LSD, causing users to believe higher doses not fatal**

# 25I-NBOMe

- “25-I” or “N Bomb”
- New synthetic version of LSD
- Use with a blotter and/or put it on your tongue
  - Powerful hallucinations
- Deaths in Louisiana, California, North Dakota and Arizona
- “25I” is an analog, or derivative of “2CI”
- [How Synthetic Drugs are Killing our Kids - Dec. 2014](#)
- [Dateline - One Small Dose Feb.21, 2016](#)





# Who is Molly?

**MISSING**

**HAVE YOU SEEN MOLLY?**

**She makes me  
want to dance...**

#whereismolly  
cedricgervais.com



**PLEASE  
HELP ME FIND  
MOLLY**

# Molly is...

- Molecule
- MDMA ??
- “Anything”
- Since 2005, emergency-room cases are up 128 percent for Molly. Molly caused more than 10,000 emergency-room admissions in 2011



# Spice is NOT Marijuana

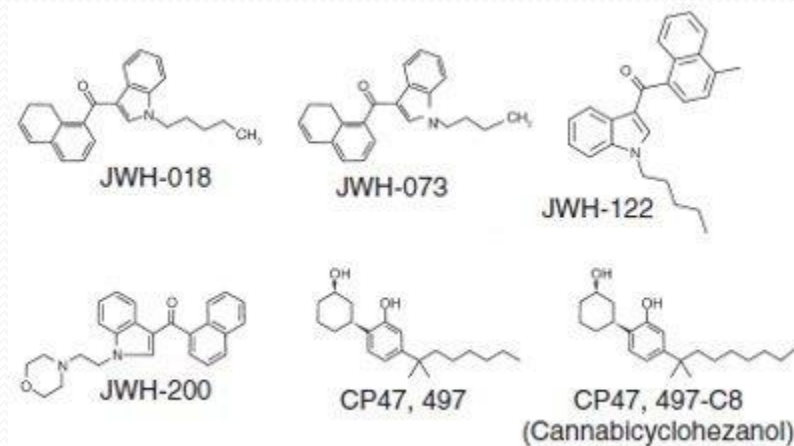


- “Synthetic marijuana” dried herbs or other plant material that has been sprayed or soaked with chemicals
- Chemicals mimic those of the psychoactive substances in marijuana (cannabinoids)
- Come from a laboratory rather than a natural source, so they are classified as designer drugs



# JWH

- Professor John W. Huffman at Clemson University received a federal research grant to study marijuana effects of marijuana on the brain. JWH was told **he needed to create substitute chemicals to study...** the secret chemical substitutes were ripped off and now are frequently abused



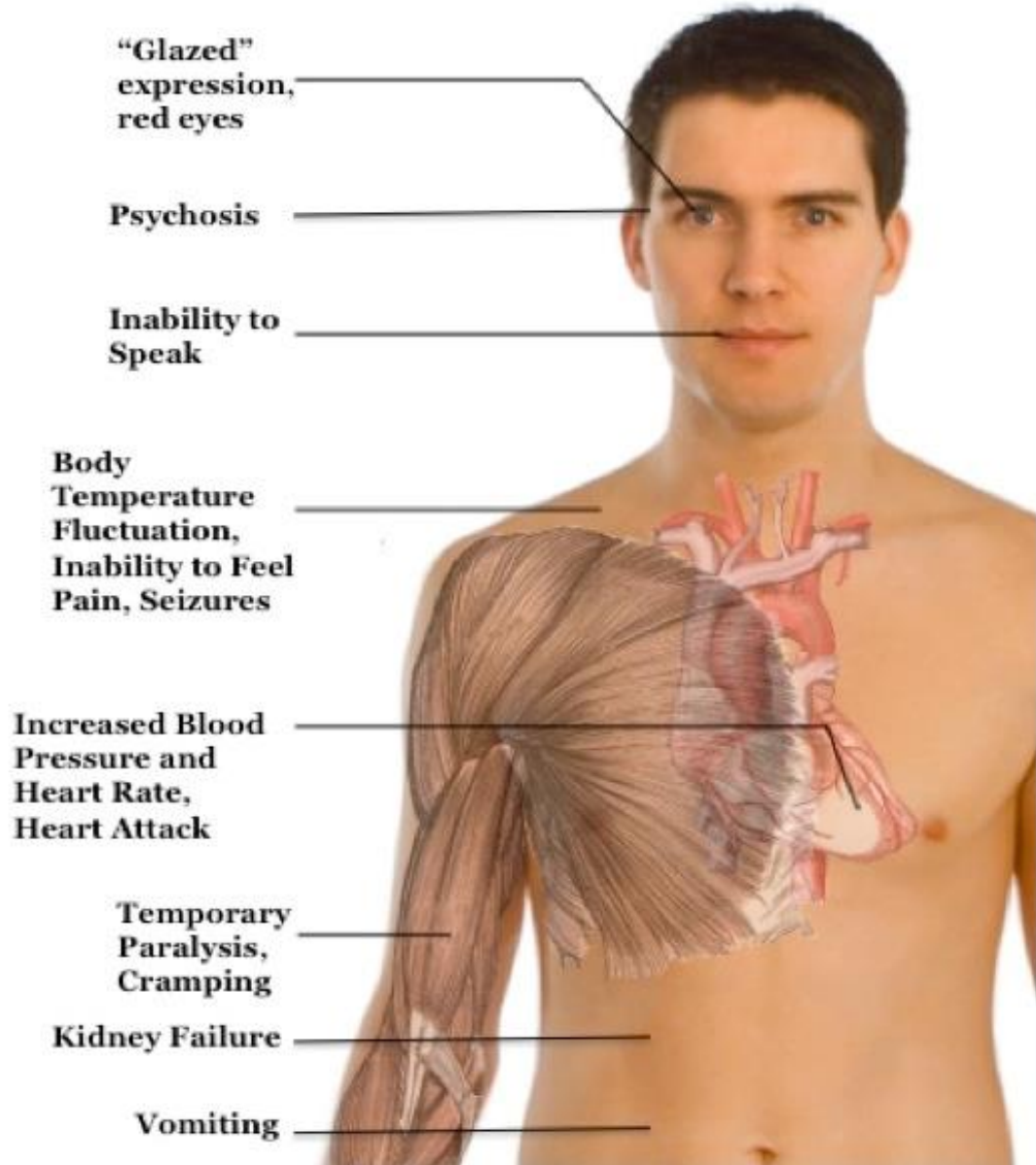
# SYMPTOMS OF SYNTHETIC MARIJUANA USE

## OVERALL SYMPTOMS

- Increased Agitation
- Paranoid Delusions
- Depression
- Hallucinations
- Exaggerated Thoughts of Suicide
- Feeling of Impending Doom
- Panic Attacks
- Heart Attacks

**Please Call 911 IMMEDIATELY  
if you suspect someone has  
used Synthetic Marijuana!**

**Many of these symptoms may be life  
threatening and may change suddenly.**



# Possible Health Risks

- Hallucinations, delusions, severe agitation, elevated heart rate and blood pressure, vomiting, tremors, and seizures
- In the most severe cases users have blacked out for several hours, had feelings of cardiac arrest, and/or recorded feelings of psychosis
- Some of symptoms such as increased agitation, elevated blood pressure, and heart rates severely increase in “Spice”
- Marijuana label is mislabeling!
- Spice is NOT pot



# Thalidomide

- OTC tranquilizer released in the late 1950s
- **Marketed in 46 countries as sleep aid, alleviating nausea** *“given with complete safety to pregnant women and nursing mothers without any adverse effect on mother and child.”*
  - During 4 years it was on market, doctors **prescribed it as a nontoxic antidote to morning sickness and sleeplessness**—sold to millions.
- Affected **100,000 pregnant women**, causing over **90,000 miscarriages and thousands of deformities to the babies** who survived
- **Effects:** deaf, blind, curved spines, born without arms or legs, shortened limbs, heart and brain damage



# Spice Use 2015



A photo provided by Karen Stallings of her sons, Joey Stallings, left, and Jeffrey Stallings. Both were hospitalized this month after using a synthetic substance called spice that mimics marijuana but is far more potent.

## 2015 Daily Numbers

Day of the Month	January	February	March	April	May	June	July	August
1	15	11	11	3	49	25	16	17
2	7	8	8	25	25	31	15	24
3	8	8	11	21	19	16	17	16
4	3	12	8	9	69	23	25	31
5	12	8	7	16	43	26	19	31
6	17	15	12	43	97	8	15	19
7	11	15	10	29	115	19	21	22
8	18	10	6	39	72	20	16	28
9	9	11	4	40	34	7	13	19
10	15	14	11	40	27	30	20	23
11	8	10	8	30	43	16	24	24
12	10	18	5	48	33	26	28	27
13	12	5	9	49	28	15	32	23
14	10	2	11	61	50	23	20	26
15	14	12	6	68	73	23	30	20
16	17	9	6	66	88	20	32	30
17	9	3	8	83	17	21	30	22
18	10	8	8	50	33	19	23	
19	10	12	11	52	37	24	30	
20	11	6	8	108	27	12	33	
21	10	10	7	92	22	16	28	
22	17	9	7	38	42	25	18	
23	9	13	11	99	10	28	25	
24	12	11	7	63	15	16	23	
25	11	16	10	49	9	34	23	
26	13	5	9	48	28	31	11	
27	12	5	9	82	29	27	22	
28	10	7	8	61	18	27	21	
29	13		8	52	25	17	29	
30	13		13	48	11	24	17	
31	12		12		21		21	
<b>TOTAL</b>	<b>358</b>	<b>273</b>	<b>269</b>	<b>1,512</b>	<b>1,209</b>	<b>649</b>	<b>697</b>	<b>402</b>

# Spice cases by year

Year	Number of Cases
• 2011	6,968
• 2012	5,230
• 2013	2,668
• 2014	3,682
• 2015	7,794
• 2016	2,695
• 2017 (thru April)	656



# Overdoses and Crime on the Rise

- A survey of 35 major city police departments across the US found that **30% have attributed some violent crimes to spice use**
- DC EMS department reports 439 people overdose on Spice in June alone
- Homeless populations appear to be bearing the brunt of overdoses in some cities
  - US Attorney's Office in Washington DC plans to begin presentations to homeless shelters to warn residents of the dangers of the drugs

# Times Square driver was high on synthetic marijuana (K2) when he slammed into pedestrians: report

Aol.com Editors

May 18th 2017 5:32PM

- The man who drove his car into a crowded sidewalk in Times Square on Thursday was high on synthetic marijuana, known on the street as K2, according to [ABC News](#)
- Richard Rojas, 26, plowed down three city blocks, killing an 18-year-old woman and injuring at least 22 others in what appears to have been a drug-fueled rampage

# Salvia – a Mexican herb

## Magic Mint or Diviners Sage



- **Marketed as legal cannabis substitute, yet quite different & LEGAL**
- **Price** - Dried leaf - 10-100 USD per ounce
  - Ex. two grams of dried Salvia leaves sell for \$8 and a 10-times stronger extract goes for about \$25
- **Effects:** When smoked, Salvia generally comes on very quickly
  - First effects - 20-60 seconds
  - Peak effects within 5-20 minutes
- **What happens with use?**
  - 2-dimensional hallucinations, out of body experiences, becoming an object, traveling back in time, being in more places at once and uncontrolled laughing
- **Safety Suggestions:** do not operate machinery or drive, have someone present during use (sitter), no sharp objects nearby
- **Repeated use of hallucinogens can promote a dissociation from reality even when not taking the drug**
- No Federal regulations... varies in states



# Shooting Suspect Had Been Known to Use Potent, and Legal, Hallucinogen

Published: January 17, 2011

- Jared Loughner, 22, shoots 19 in Tucson, kills 6, including US Rep. Gabrielle Giffords
- Salvia divinorum — which federal drug officials warn can closely **mimic psychosis** — matched Mr. Loughner's own comments about how he saw the world, like his often-repeated assertion that he spent most of his waking hours in a dream world that he had learned to control
- Mr. Loughner, 22, was at one point a frequent user of the plant, also known as diviner's sage, which he began smoking while in high school during a time in which **he was also experimenting with marijuana, hallucinogenic mushrooms and other drugs, according to friends.** Mental health professionals warn that drug use can both aggravate and mask the onset of mental illness

# Sold As... “Code Words” not tobacco...

- Potpourri
- Herbal incense
- Glass cleaner
- Plant fertilizer
- Insect repellent
- Souvenir
- Bath salts



# What are Substituted Cathinones?

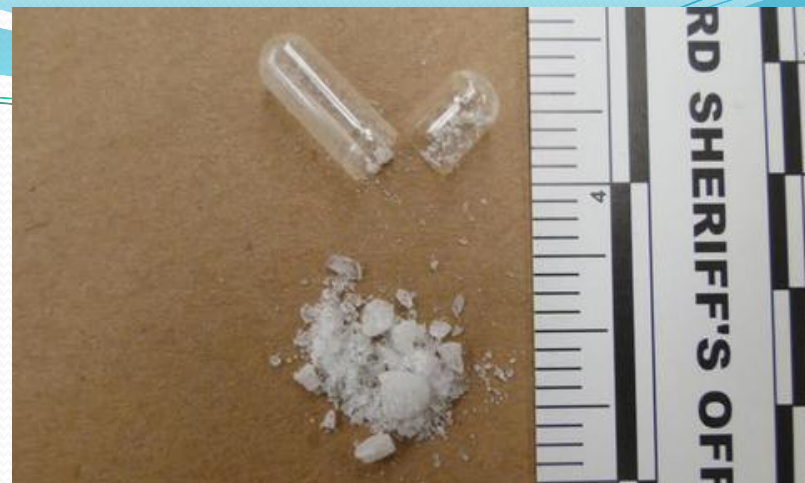
## “Bath Salts”

- **Derivatives of cathinone**, a psychoactive substance with stimulant properties occurring naturally in the *khat* plant
  - effects are similar to amphetamines like ecstasy and cocaine
- **Street names**
  - Abyssinian Tea, African Salad, Catha, Chat, Kat, Oat
- Powder and crystal form that crumbles easily
- White to light brown in color
- Sold in 50 mg to 500 mg packets/containers
- Labeled “not for human consumption”
- Sold for \$5 to \$75
- Easily available online





# What is Flakka?



- **Similar to cathinone AKA bath salts (alpha-PVP)**
- Rapid heart beat, heightened blood pressure and body temperature
  - “Cooks the body” temps over 106 degrees
- Psychosis, excited delirium, aggressive and violent
  - Harm to self and others
- **Cases in Florida, Ohio, Kentucky, Tennessee and Texas**
- Synthetic chemical that is easy to purchase online from China
- Flakka has replaced crack cocaine cases in Broward County, FL

# Potent New Stimulant Flakka Ravages Florida

Users' bizarre behavior taxes police and hospitals as drug alpha-PVP spreads from the South to Midwest

Wall Street Journal, August 12<sup>th</sup>, 2015

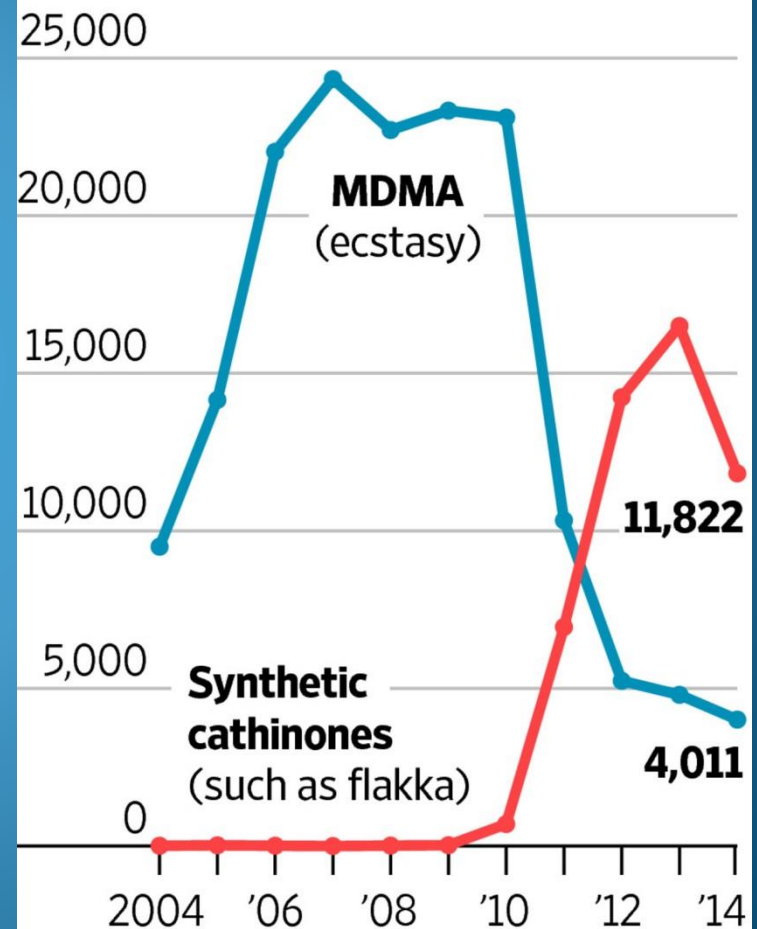
- The crime lab at the Broward Sheriff's Office went from analyzing **one alpha-PVP case in January 2014** to **80 in September** and **an average of 100 a month this year**
- Flakka typically comes as **white or pink crystals that can be snorted, injected or vaporized using an e-cigarette**
- The Broward Health system, which includes four emergency departments, is receiving an average of 12 alpha-PVP cases a day
- 3 categories
  1. psychotic episodes
  2. physiological abnormalities such as heart rates of 200 beats a minute
  3. cardiac arrest

## 2015 Cases in Florida and Kentucky

- One man tried chopping down a tree that he thought contained officers conducting surveillance on him.
- One man tried to kick in the door of a police station, saying people were chasing him.
- Another man impaled himself while trying to scale a spiked fence.
- Several users have walked along major roadways completely naked.

## Speedy Spread

Number of crime-lab reports for MDMA and synthetic cathinones in the U.S.



Source: Drug Enforcement Administration

THE WALL STREET JOURNAL.



# Gravel

Highly addictive synthetic stimulant



- **Similar to cathinone AKA bath salts (alpha-PVP)**
- Sold as plant fertilizer
- “Gravel” rock like substance
- **Effects:** Increased blood pressure, elevated heart rate, violence, paranoia, hallucinations and brain damage
- Unknown long term effects; however may result in deterioration of tissue around injection site
- Seizures have contained meth, Klonopin and bath salts

# Effects

- High similar to cocaine, methamphetamine, MDMA (Ecstasy) or LSD
- Initial euphoria last **3-4 hours**
- Psychosis, hallucinations, suicidal thoughts can last **3-4 days**
- Unknown long term effects
  - **3-4 months after last initial use**
- Cited as “imminent threat to public safety” by DEA



# Bath Salts

## Common Names

- Ivory Wave
- Cloud 9
- Ocean
- Bliss
- Eight Ballz
- White Lightning
- Hurricane Charlie
- Charge Plus
- Scarface
- Red or White Dove
- White Water Rapid
- Amped Ladybug Attractant
- Snowman Glass Cleaner
- Joker
- Scooby Doo







**Drug use is NOT a  
victimless crime**

# We pay for poor choices of users:

- Drug endangered children (DEC)
- Babies born addicted
- Care for the babies of drug addicted parents
- Lost money at work (absenteeism, errors)
- Violent crimes
- Exposure
- Treatment services
  - meth mouth – taxpayers pay to fix

# Average Cost to Treat

An addicted baby - \$62,000

A healthy baby - \$4,700



# Substance abuse costs our nation over \$600 BILLION a year

	Health Care	Overall
Tobacco	130 billion	295 billion
Alcohol	25 billion	224 billion
Illicit Drugs	11 billion	193 billion

National Institute of Drug Abuse, August, 2015

# Resources

## Treatment Assessment Screening Center

*Ethics, integrity, and a commitment to promoting a drug-free lifestyle*

- <http://www.tascaz.org/>
- Banner Good Samaritan  
Poison and Drug Information Center  
24-hour phone: **1-800-222-1222**
- **www.dea.gov**

# Helpful Websites

[communitybridgesaz.org](http://communitybridgesaz.org)

[drugfreeaz.org](http://drugfreeaz.org)

<http://www.drugfree.org/MJTalkKit/>

[drugfree.org/the-parent-toolkit/](http://drugfree.org/the-parent-toolkit/)

[getsmartaboutdrugs.com](http://getsmartaboutdrugs.com)

[ACPA.net](http://ACPA.net)

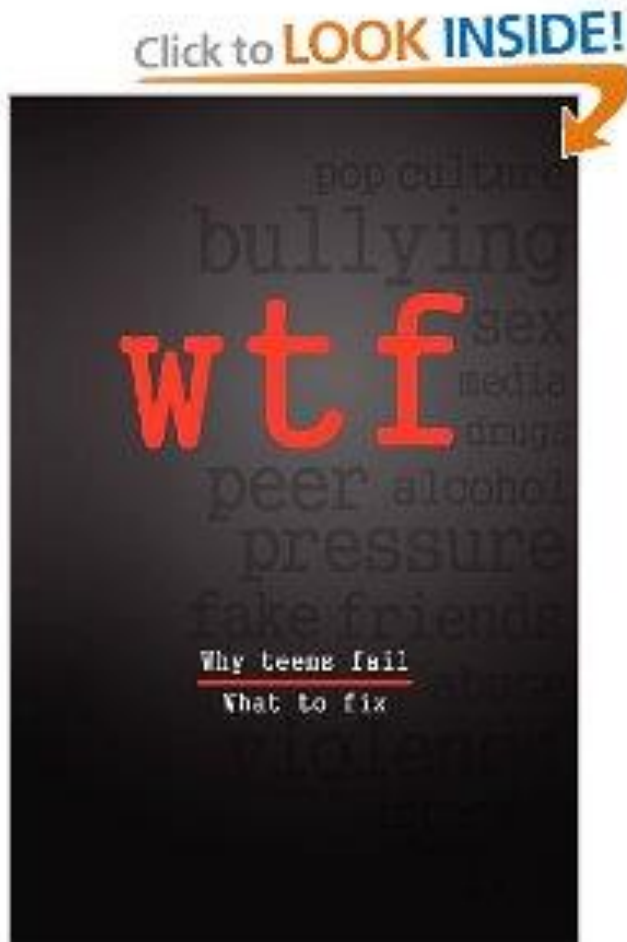
[jointogether.org](http://jointogether.org)

<http://www.azcjc.gov/ACJC.Web/Rx/default.aspx>



# WTF: Why Teens Fail & What To Fix

- [whyteensfail.com](http://whyteensfail.com)
- [Amazon.com](http://Amazon.com)



# Where can you find more information?

Call your local poison center at 1-800-222-1222. Poison centers are open 24 hours a day, seven days a week, every day of the year for poisoning emergencies and for informational calls, too.

[www.aapcc.org](http://www.aapcc.org)





*Celebrate Recovery*  
*Believe In Yourself*  
*Inspire Others*

**Our Mission:**

To maintain the dignity of human life.

**Our Purpose:**

To be an agent of positive change  
in our communities.



# UnscRipt™

A PROGRAM OF COMMUNITY BRIDGES, INC.

- Opened in 2012
- Medically Monitored Integrated Treatment
- Individual and Family
- Education, Counseling, & Psychosocial Support
- Board Certified Addictionologists & Medical Staff

## **Prescription Drug Addiction An American Epidemic**

**No blaming, shaming, or guilt.**  
**You are not the problem.**

**Education and Support vs. “Intense Therapy”**



# ACCESS TO CARELINE 24/7

- ❖ Statewide access to all CBI services
- ❖ Average 700+ calls per day
- ❖ Dispatches Outreach Teams
- ❖ Transfer patients from Hospital ERs
- ❖ Telephone Access to Medical Practitioners

**877-931-9142**



# Opposite of Addiction is Connection

- Bonds and connections
  - People, jobs, love, reasons for being
- Real life connections... not FB, twitter, Instagram
  - Social recovery
- Addicts seek peace, calm, relief, happiness
  - What are they missing? Don't we all crave?
- Remove the isolation... surround with connection
- [Everything You Think You Know About Addiction Is Wrong | Johann Hari | TED Talks](#)



**LOVE, BELONGING &  
CONNECTION ARE THE  
UNIVERSAL SOURCES OF  
TRUE WELL-BEING**

# Thank You!

Stephanie Siete  
Public Information Officer

**Access to Care - 24/7**

**877.931.9142**

CommunityBridgesAZ.org

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