



Street Drugs in 2015

By: Jason Martin, RN CEN NREMT-P
Injury Prevention/Outreach Coordinator
CoxHealth Trauma Center
Springfield, MO

Where are
we
heading?



Why this is important



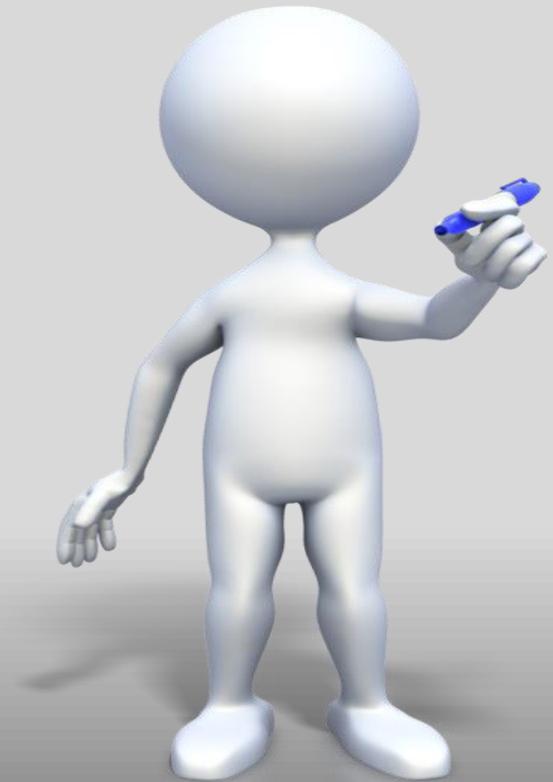
Safety of our coworkers and general public



Drugs have changed



These patients are not getting good care



Toxicology

- › Alcohol
- › Marijuana
- › Pills: Vicodin, Percocet, Morphine, Xanax, etc.
- › Meth, Heroin, Cocaine
- › Designer Drugs
- › Synthetics & Bath Salt
- › Regional



Meth Boom Montana



Drugs and Cash

What is the problem?

- › 1350 EMS called to 16 y/o male
- › Police called for EMS
- › Police arrived to find patient in the backyard of residence that was not his, he was tased 5 times and pepper sprayed multiple times. PD state he was awake, foaming at mouth and skin hot to touch
- › EMS found pt in cuffs, prone
- › Pt stated his name was JC
- › Asked about pain “no, I am JC”





EMS/ER

- › Small LAC to forearm, bruising to wrist noted from cuffs
- › EMS V/S: 158/90 150 22 90% Sugar 244
- › Pt coded in front of EMS
- › CPR in progress
- › Multiple marks noted from baton strikes 25-30 times
- › Temp 105.0
- › Pronounced 50 minutes after arrival



Autopsy (SLU Toxicology)

> Blood

- MDPV 15 MCG/ML (20-30 x more potent)
- Naphyrone : Negative
- Pyrovalerone: Negative

> Urine

- Same as Blood

The Driving Range

- › 14 y/o boy runs out of woods naked screaming and swinging a golf club
- › Police called to the scene, sprayed male with pepper spray multiple times without effect
- › Male was tased 5 times
- › He was handcuffed and transported to hospital
 - Yelling he wants to eat everyone
 - Making animal noises
- › Attacked a nurse, was tased 12-15 times additionally at hospital



Drugs on the Streets....

Update!



The Most Controversial Drug





- > Perc
- > How
- > Char
- > THC
- > Hash

Marijuana Overdoses Kill 37 in Colorado On First Day of Legalization

Jan 02, 2014

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Colorado is reconsidering its decision to legalize recreational pot following the deaths of dozens due to marijuana overdoses.

According to a report in the *Rocky Mountain News*, 37 people were killed across the state on Jan. 1, the first day

the drug became legal for all adults to purchase. Several more are clinging onto life in local emergency rooms and are not expected to survive.

"It's complete chaos here," says Dr. Jack Shepard, chief of surgery at St. Luke's Medical Center in Denver. "I've put five college students in body bags since breakfast and more are arriving every minute.

"We are seeing cardiac arrests, hypospadias, acquired trimethylaminuria and multiple organ failures. By next week the death toll could go as high as 200, maybe 300. Someone needs to step in and stop this madness. My god, why did we legalize marijuana? What were we thinking?"

Denver woman spent 13 minutes on 911 call before being shot to death

By Kieran Nicholson and Ryan Parker
The Denver Post

POSTED: 04/15/2014 06:03:50 AM MDT
UPDATED: 04/16/2014 06:07:33 AM MDT

85 COMMENTS

For 13 minutes, a terrified Denver woman told a 911 dispatcher on the telephone that her husband was hallucinating, talking about the end of the world and asking her to shoot him. Their three small boys were scared.

Then, when she realized her husband had retrieved a gun from a safe, she began to scream. A gunshot ended her call for help.

By the time officers arrived late Monday, 44-year-old Kristine A. Kirk had died from a gunshot wound to her head.

Police arrested Richard Kirk, 47, on suspicion of first-degree murder, said Sonny Jackson, a Denver police spokesman. Kirk told police he killed his wife, according to a [probable-cause statement in the case](#).



Richard Kirk (Denver Police Dept.)

Jun 19:

- Auditor urges Denver police to set specific goals to improve responses

Jun 9:

- Dispatcher who handled



Denver police said Tuesday they are investigating whether the husband used marijuana before the shooting. Police are also investigating their response to the

Two Denver deaths tied to recreational marijuana use



Levy Thamba Pongi, left, and Kristine Kirk / CBS DENVER/CBS NEWS

65 Comments / f 444 Shares / t 110 Tweets / Stumble / @ Email More +

DENVER - This week, two Denver deaths were linked to marijuana use, and while some details of the deaths have yet to emerge, they are the first ones on record to be associated with a once-illegal drug that Colorado voters legalized for recreational use, as of January 1, 2014.

One man jumped to his death after consuming a large amount of marijuana contained in a cookie, and in the other case, a man allegedly shot and killed his wife after eating marijuana candy.

Wyoming college student [Levy Thamba Pongi, 19, jumped to his death](#) at a Denver hotel on March 11 after eating more of a marijuana cookie than was recommended by a seller, police records show - a finding that comes amid increased concern about the strength of popular pot edibles after Colorado became the first state to legalize recreational marijuana.



What is the perception of MJP?

- Increase in availability of marijuana and other drugs
- Teens being misguided about marijuana as being a natural product.
- They are unaware of the mood-altering and physiological effects.
- Has become some-what accepted by society through media and radio waves



- “My family uses MJP”
 - Compare MJP to all other drugs
 - Celebrities and Athletes in Media
 - Successful people use MJP
-
- › Obama, Oprah, Clinton, Stephen Colbert, Jay Z, Bill Gates, LeBron James, George Clooney, Lady Gaga, Brad Pitt, Tom Brokaw, Micheal Phillips, Jennifer Aniston, David Letterman, Morgan Freeman, Angelina J, Martha Stewart, Matt Damon, Rihanna,.....

Marijuana is changing

Is the plant changing?







How many states call marijuana a
medicine?

Hamilton teen burned by explosion while making hash oil

Recommend 0 Tweet 1 +1 0 Share 1 Print Email ☆

May 08, 2014 9:00 am · By PERRY BACKUS of the Ravalli Republic (9) Comments

HAMILTON - An early morning attempt to use butane to brew a batch of hash oil ended in an explosion that sent a Hamilton teen to an out-of-state burn center.

Hamilton Police Chief Ryan Oster said officers responded to an early morning call Tuesday from Marcus Daly Memorial Hospital about a badly burned male juvenile who had been dropped off there.

"The people with the juvenile went in and summoned paramedics, dropped off the juvenile and then they left," Oster said.

The officers were able to obtain a description of the vehicle and located it a short time later. Inside, they found a 25-year-old male who had also been burned.

Officers obtained search warrants for both the car and a home on the 400 block of Madison Street.

Inside the home, they discovered evidence of an explosion that blew out a window and caught the inside of the home on fire.

Oster said the juvenile and the older man were allegedly making hash oil from marijuana using a process that involved the use of butane. The butane apparently combusted, there was an explosion and the men were burned as a result.

The juvenile male was transported to an out-of-state burn center for treatment of his injuries.

Howard M. Wease III was charged with felony counts of operating a clandestine laboratory and criminal endangerment. Wease's last known address was a general delivery box in California.

Oster said the investigation into the matter continues.

This was the first time in Oster's memory that an explosion had occurred in Hamilton from people making hash oil.

A recent Associated Press report said the practice of using butane to make the product has been on the rise in Colorado where marijuana can now be purchased legally for recreational use.

"Butane is highly combustible," Oster said. "This is a significantly dangerous thing to be doing. It's not a good idea."

[Flathead forest officer honored for preventing Louisiana man's suicide](#)



KALISPELL - The troubled 24-year-old man from Louisiana

drove north, with the intention of committing suicide in Yellowstone National Park. [Read more](#)

[2 Stoners face marijuana charges after Corvallis bust](#)

HAMILTON - Two members of the Stoner family were charged with growing marijuana at their family home in Corvallis this week. [Read more](#)

Hash Oil Explosions



Butane Hash Oil Dangers

June 5 · 🌐

Hamilton Montana 5/27/2014



Teen burned by explosion while making hash oil

An early morning attempt to use butane to brew a batch of hash oil ended in an explosion that sent a Hamilton teen to an out-of-state burn center.

RAVALLIREPUBLIC.COM | BY LEE ENTERPRISES

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known as
x," butane

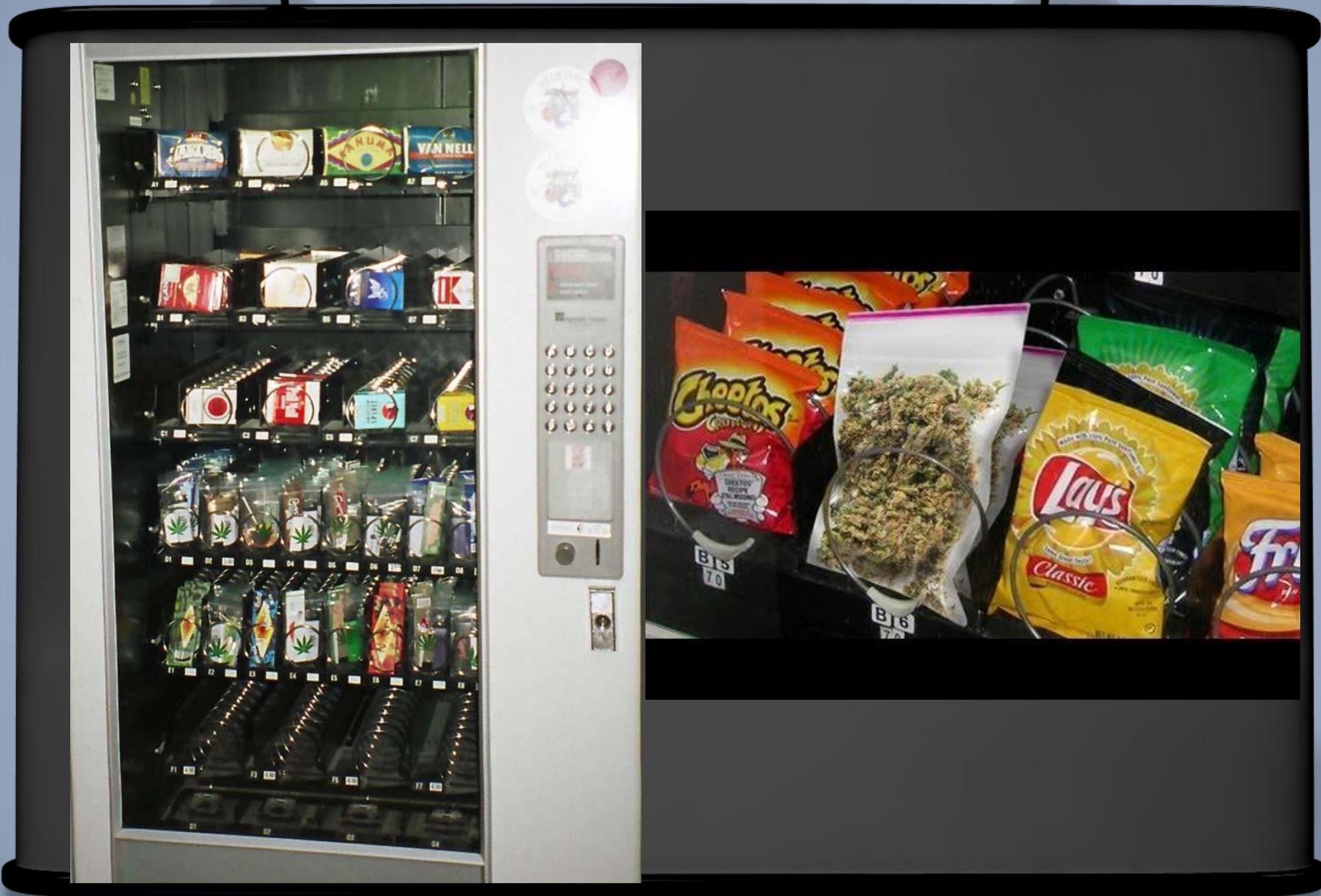


Products such as edibles and balms made with concentrates are generally referred to as infusions

The Krondike Bar







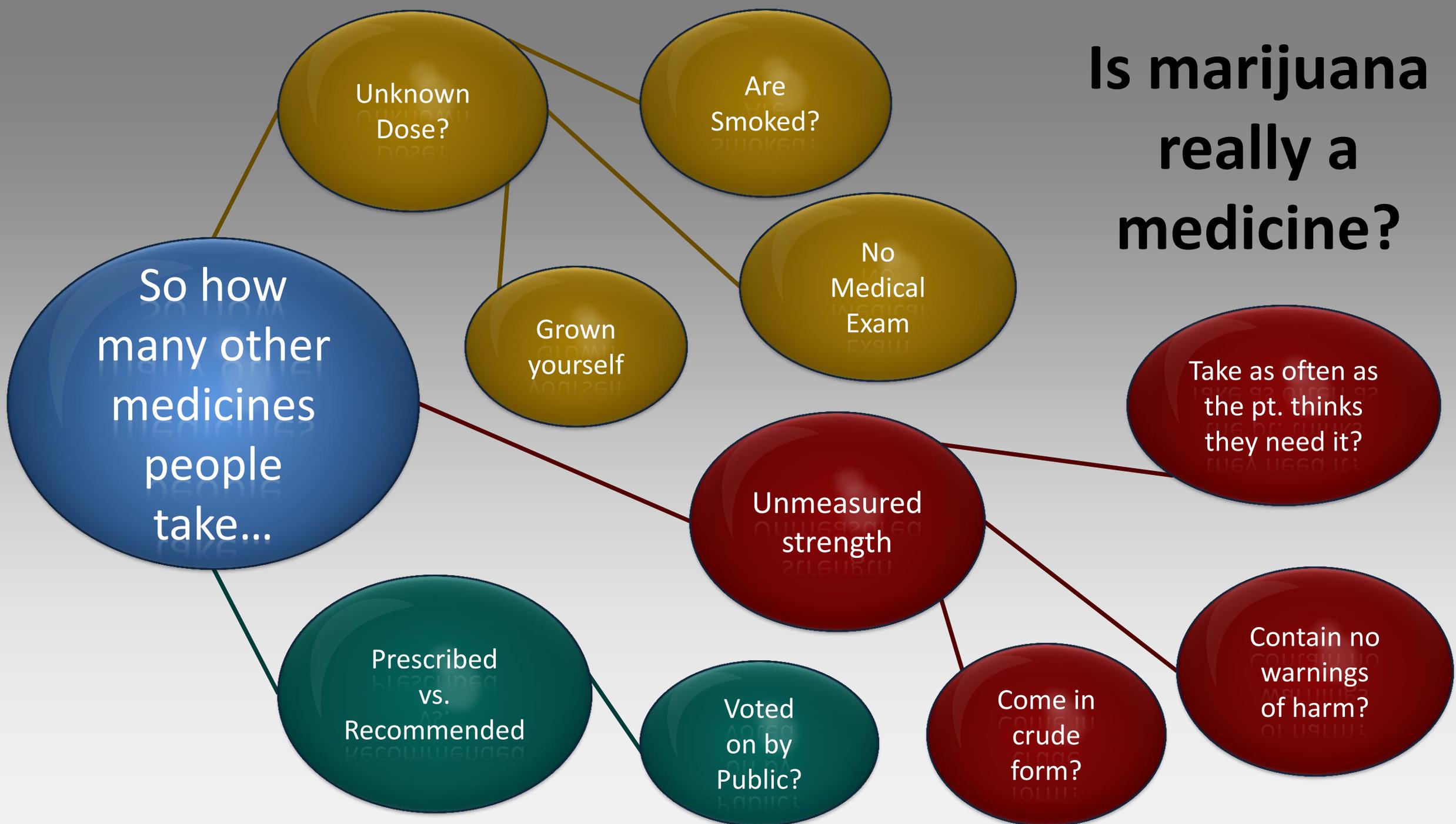
States to Which Colorado Marijuana Was Destined (2014) (Total Reported Incidents per State)



Debate Topics



Is marijuana really a medicine?



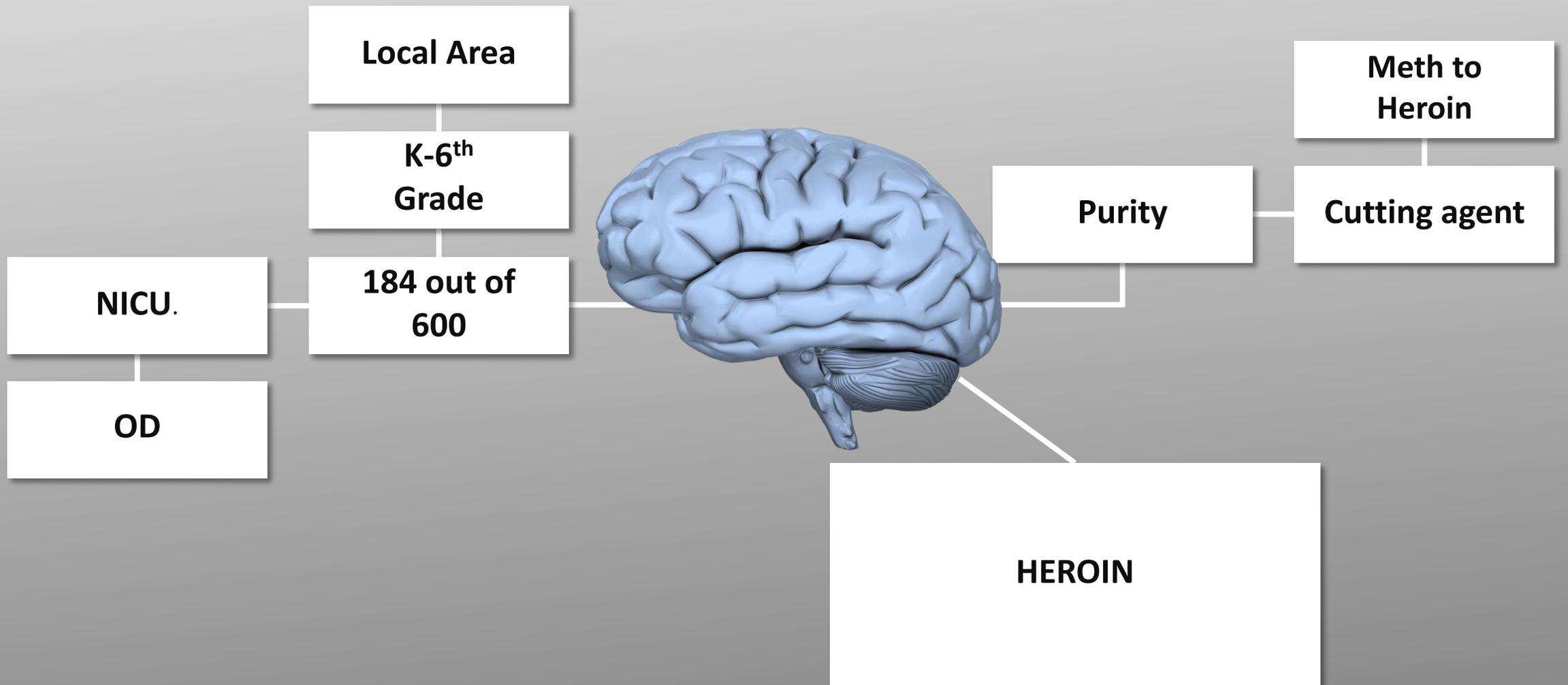
Drugs are categorized into 3 basic groups

1. Depressants
2. Stimulants
3. Hallucinogens
4. Dissociative Anesthetics
5. Narcotic Analgesics
6. Inhalants
7. Cannabis

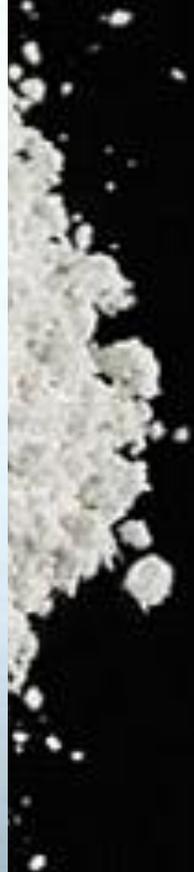




WHAT DRUG IS MAKING A COMEBACK???



WHAT DRUG IS MAKING A COMEBACK???



Heroin Tar

Photo by Borisb73. © 2007 Erowid.org.



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naloxone injection, USP

0.4mg auto-injector

**USE FOR OPIOID EMERGENCIES
SUCH AS SUSPECTED OVERDOSE**

Seek Emergency Medical Attention

Instructions for use found inside on device

Includes Voice Instructions from a Speaker

Synthetic Drugs

Synthetic Marijuana & Bath Salts

Not new but still poorly understood.....



Som
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Synthetic Marijuana Deaths Tripled This Year

BY **MAX KUTNER** 6/11/15 AT 6:23 PM

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Pos
Upi
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Deaths related to synthetic cannabinoid use have tripled this year, the Centers for Disease Control and Prevention says. TAMI CHAPPELL/REUTERS



FILED UNDER: **Tech & Science**

From January to May of this year, 15 people have died from using synthetic cannabinoids, a threefold increase from that period in 2014, the Centers for Disease Control and Prevention (CDC) said in a report [issued Thursday](#). The number of calls to poison centers about the substances has also skyrocketed in the past year, confirming the federal government's view that this is a growing public health threat that needs to be stamped out.

Synthetic cannabinoids are man-made psychoactive chemicals sprayed on plant material, which is then cut and smoked or eaten. They are alternately referred to and sold as synthetic marijuana, spice, K2, black mamba or crazy clown, according to the CDC report. New types of synthetics are constantly hitting the market, available online and in head shops, making it difficult for

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Where did this come from?

- › 1984 the National Institute on Drug Abuse funded the research of Dr. John Huffman @ Clemson
- › Over next 20 years he created over 450 synthetic compounds
- › 2 of the compounds in 2000 started to be sold in Germany
 - Spice and K2





What we don't know...

Don't have toxicity data

Don't know the metabolites

Don't know the pharmacokinetics

Drug Interactions

Long Term

Pregnancy

Best emergent treatment



What we do know

Synthetic Drugs Are Deadly Chemicals

One-time use has resulted in death

Adults and children have died

Deliberately mislabeled to avoid regulation

No end in site...

So how is it made?





Flavor Added to Spice

- › Cotton Candy
- › Bubble Gum
- › Juicy Fruit
- › Strawberry
- › Fruit Punch
- › And more



Spice Effects on Mind & Body

- 
- › **Agitation**
 - › **Anxiety including extreme panic attacks**
 - › **Depression**
 - › **Paranoia**
 - › **Psychosis**
 - › **Hallucinations**
 - **Visual**
 - **Auditory**
 - › **Flashbacks**
 - › **Increased blood pressure**
 - › **Increased heart rate**
 - › **Cardiac arrest**
 - › Blood shot eyes
 - › Insomnia
 - › Tingling, numbness
 - › Vomiting
 - › **Brain Seizures**
 - › Tremors
 - › **Suicidal Thoughts?**



Bath Salts

Synthetic Cocaine, PCP, LSD



Amphetamine



O2 Atom



Cathinone

Amphetamine



Methyl Group



MethAmph

Cathinone



Methyl Group



Methyl-Cathinone



› Published findings

- Russia contacts him stating they have similar drug
 - › 1970's called "Ephedrone" (Jeff)
- Next four decades, was a theory until 2010
 - › Bath Salts
- How Meth, Amph and Cocaine (Reuptake Inhibitor) works
Dopamine

So why are these people naked and fighting?





- › Mephedrone (Kl) – Sold in Europe as
- › MDPV – Ritalin (20 X 30 m)
- › Methylone – (1 Ketone group f
Gen
- › Glass Cleaners/Er
- › Ladybug Attractant





Bath Salts – Synthetic Stimulants and others -What are They?

- › A very dangerous synthetic drug
- › **Are NOT used for Baths!**
- › Deliberately Mislabeled
- › “Not For Human Consumption”





Bath Salts Effects Mind and Body

- **Insomnia**
- **Agitation, Easily Angered**
- **Extreme Energy**
- **Extreme Paranoia**
- **Psychosis**
- **Hallucinations**
- **High Body Temperature can melt muscles**
- **Kidney Failure**
- **Increased blood pressure**
- **Increased heart rate**
- **Can be combined to give**
- **Stimulant High**
- **LSD Hallucinations**
- **PCP Strength**
- **Amphetamines Paranoia**





[Homepage](#) > Legal Mephedrone

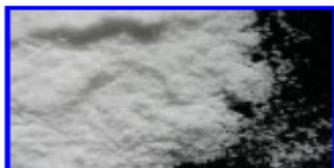
2-DPMP"

A-836



We provide the highest-quality bathing products to provide you with a smooth, sensual A-836 that will leave you feeling high. Our A-836 designed to take your mode experience to the next level of euphoria and energy. Just a small amount is necessary for profound effects. When you buy A-836 from us...

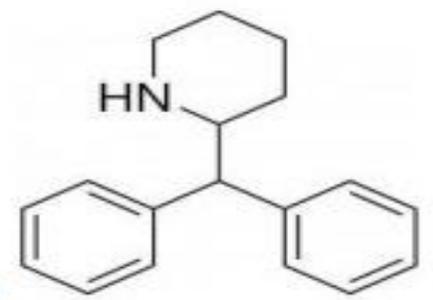
2-DPMP



We provide the highest-quality bathing products to provide you with a smooth, sensual 2-DPMP that will leave you feeling high. Our 2-DPMP



We provide the highest-quality bathing products to provide you with a smooth, sensual A-836 that will leave you feeling high. Our A-836 designed to take your mode experience to the next level of euphoria and energy. Just a small amount is necessary for profound effects. When you buy A-836 from us you are guaranteed of the highest quality available on the market, high purity products, secure payment, and very discreet, fast and discreet international delivery Our A-836 have a very strong nd gets you high!



How you take them?

- › Inhalation
- › Keying
- › Parachuting/Bombing
- › IV
- › Bootie Bumping/Keistering



► *Addictive/Abusive Properties of “Bath Salts”*

- extreme/highly addictive property

- intense craving

- binging



Other Designer Drugs



Latest Version of K.C. Synthetic Drug

Marked as “enhanced plant vitamin – not for human consumption.”

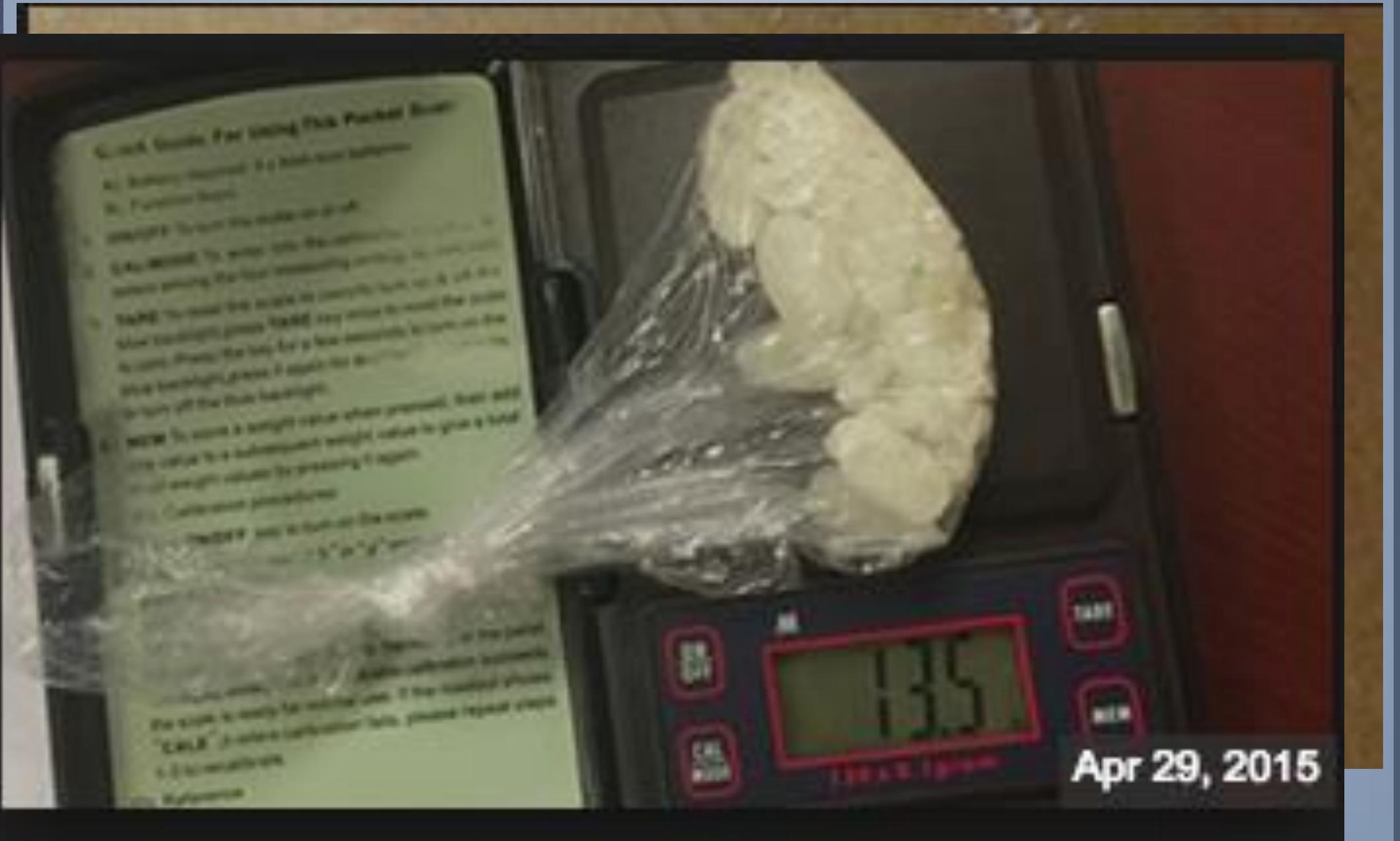
Characteristics include:

- *Quickly addictive*
- *Stimulates the central nervous system (like meth).*
- *Can lead to severe psychosis (and suicide)*



Gravel

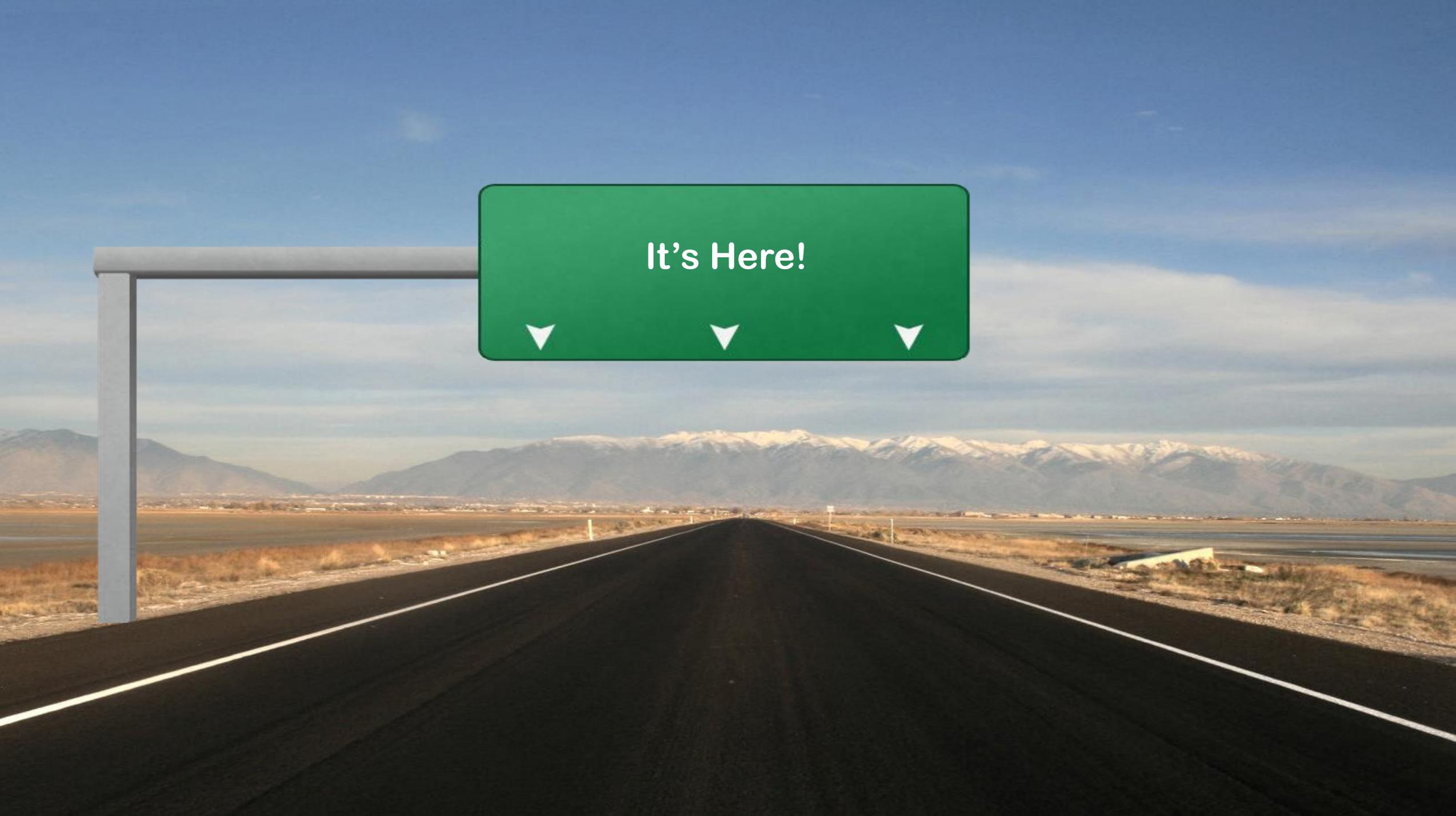




Apr 29, 2015



It's Here!





Xylazine Horse Tranquilizer: The Next Zombie Drug?

Xylazine is meant to help horses endure dental work or castration. An expert tells *The Fix* of the deadly risks of human use.

Thanks to its proximity to the US, its numerous ports, and its unique political status, Puerto Rico is increasingly emerging as a center for drug smuggling, with up to one third of the drugs that are smuggled into the US passing through there. So the **reported prevalence** of the abuse of a kind of horse tranquilizer in Puerto Rico should sound alarm bells in the US, too. Xylazine is intended as a sedative for horses, reserved for use during procedures such as dental work or castration. It first appeared on the black market for human consumption in Puerto Rico's horse farming towns around 2000. Relatively little is yet known about the long-term effects of the drug on people, mainly because there have been few studies on the subject. **Dr. Corretje**, a veterinarian from Puerto Rico, says that Xylazine "works as a depressant of the central nervous system." The tranquilizer's immediate effects on humans are reported to include fading in and out of consciousness, a lack of coordination, and the troubling sense of the body "drifting down to the ground"—even while you're standing on your feet. *These effects apparently last for up to six hours. But one*



Xylazine is designed for horses. Photo via



Xylazine (Anesthesia)

- › Dental Work and Castration
- › Causes users to fall in/out of consciousness
- › Often stoops when walks
- › High can last up to 6 hours
- › IV Preferred route





SHARE

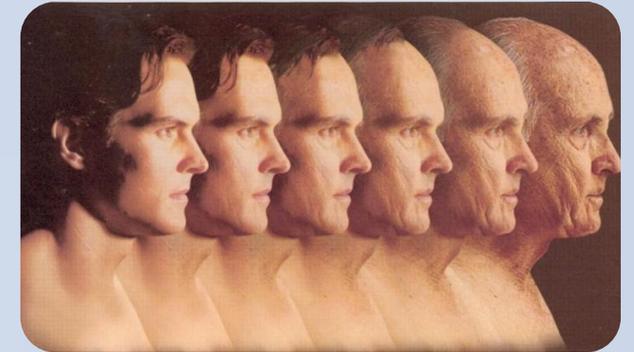


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Desmorphine (Krockadil)



2002
Siberia (Russia)
Moving Across Europe
Est: 1-2 Million

Name from effects on
addicts skin
Green, Scaly and
bumpy

Average Life Span once
addicted?

Ingredients

- › Codeine
- › Paint Thinner
- › Gasoline
- › Hydrochloric Acid
- › Iodine
- › Red Phosphorus
 - 30 minutes to make
 - High for 90-120 minutes
 - ½ cost of heroin

If all this is not enough.....





Toad Licking



- › Bufotenine (5-hydroxy-N-N-dimethyltryptamine) is a Schedule I substance found in certain mushrooms, seeds, and skin glands of Bufo toads. In general, most bufotenine preparations from natural sources are extremely toxic.



- › Guess 1st “2” abusers??





Synthetic Xanax

Phenazepam



- › Developed in 1978 in Soviet Union
- › Used in Russia for TX of neurological disorders such as epilepsy, ETOH withdrawal and insomnia
- › 1mg is equivalent to 10mg Diazepam
- › Dose is 0.5mg-2mg (erowid)
- › Pharmaceutical $\frac{1}{2}$ life of 60 hours
- › S/E: Hiccups, dizziness, loss of coordination and other benzo side effects

FOR
TS



KATV.com
5:23 | 73°

Relax Max Bars



AKA: "Zannie" Air Freshener

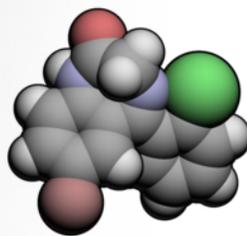


Mr. Smiley Products



Phenazepam Buy Online

Buy Phenazepam / 7-bromo-5-(2-chlorophenyl)-1,3-dihydro-2H-1,4-benzodiazepin-2-one



Chemical Name: Phenazepam

Phenazepam was developed in the **Soviet Union** and is now produced in **Russia** and some Commonwealth of Independent States.

Chemical Formula of Phenazepam: 7-bromo-5-(2-chlorophenyl)-1,3-dihydro-2H-1,4-benzodiazepin-2-one.

CAS number: 51753-57-2

Chemical Appearance: Fine white powder.

Odour: Phenazepam has almost no odour.

Phenazepam Purity: 99% pure.

Usage: Phenazepam is now available for small experiments, with amounts starting from 1 (one) gram.

Warning Extreme Caution Advised:

Phenazepam is an extremely Hazardous and powerful research chemical.

If your laboratory is not equipped with a measuring device capable of measuring quantities as low as 0.5MG (0.0005gm), then you are clearly not prepared to research this chemical.

Order Now

We do not sell this product for human consumption.

Pro:

- Great for anxiety (single dose of 0.5mg to 1mg) relief you for 2 days
- Really cheap
- Great for stim comedown or other kind comedown
- No euphoria. Could be good or bad for some. Its good for me because it will be much less abusable.
- **Useful RC in general**

Con:

- Really potent stuff
- Potentially dangerous is miss used
- Probably amnesia at higher dose.
- **Required a good 0.0001 scale or Cheap MG scale with propylen Glycol**

Order Now

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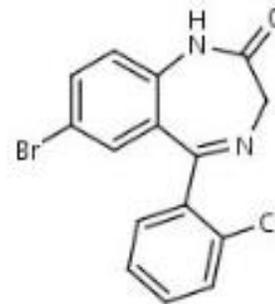
We're proud to announce we are now selling Phenazepam.

Phenazepam

- 5g = \$75
- 10g = \$125
- 25g = \$150
- 50g = \$275

To order please [create an account](#)

Incoming search terms:



[Order Now](#)

POPULAR SEARCH TERMS



PHENAZEPAM
/mg
Purity 99%
CAS No: 51753-57-2
RESEARCH SAMPLE



- › Under U.S. Law phenazepam is not currently classified as a controlled substance. The Federal Analog act only provides for auto assumed classification of chemicals “substantially similar” to Schedule 1 or 2 drugs.
- › Benzodiazepines are schedule IV
- › Not controlled but still sale for human use remains illegal in the U.S.
- › Circumvent this regulation by
“NOT FOR HUMAN CONSUMPTION”

LOUISIANA/ARKANSAS

Molly: MDMA





Pure Form of Ecstasy

- › Methylene DioxyMethAmphetamine
- › Miami/NY Molly: Mix of bath Salts, Meth, and MDMA mixture.
- › One capsule had: Cocaine, Meth, Unk Opiate
- › Death in NY: Toxicology reveled MDMA & Methylone

TRIPPY HERBS

KRATOM

10X

MITRAGYNA SPECIOSA

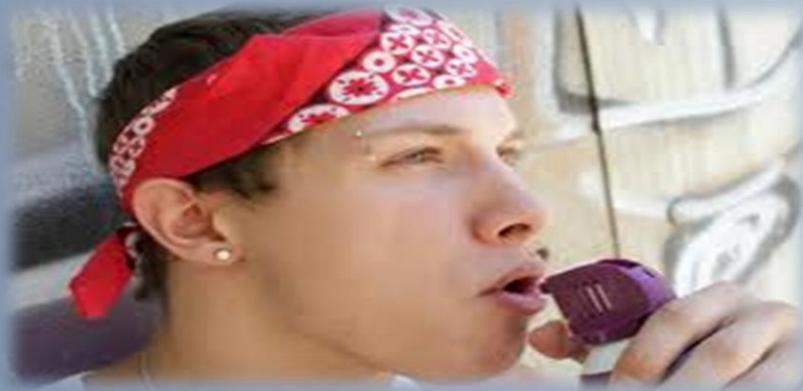
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M
S

Suboxone (Buprenorphine)



INHALENTS



Lazy Cakes / Diet Supplement



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Kickin It With Lazy Cakes

Posted: Aug 21, 2013 9:55 AM CDT

A new snack billed as "relaxation brownies" are popping up in tobacco shops. They have extremely high doses of melatonin, the hormone that puts you to sleep. Made of natural ingredients like rose hips and valerian root, "Lazy Cakes" are perfectly legal. The key ingredient, melatonin, isn't regulated or evaluated by the Food and Drug Administration. Each "Lazy Cake" has two servings of 3.9 mg of melatonin, that's a total of almost 8 mg if you ate the entire brownie.

lazycakes33 By KULR



Dextromethorphan (DXM)



- › Other names:
 - DXM, Dex, Dexing, Orange Crush, Poor mans PCP, Red Devils, Robo, Robo-tripping, Skittling, Triple C's, Vit-D
- › Abused for the past 30 years
- › Chemically R/T opiates
- › Compared to Ketamine or PCP
- › Blocks the Dopamine reuptake site, activates the sigma receptor

What do they take?

- › Products that contain the cough suppressant Dextromethorphan
- › Active ingredient “Dextromethorphan hydrobromide”
 - Tussidex, Triaminic, Vicks 44 Cough, Zicam, PediaCare Childrens Long Acting Cough, Delsym
- › What else is in the product?
 - Benadryl, Tylenol, etc.
- › Is the child taking any meds that would interact?
 - MAOI’s (Can lead to serotonin syndrome)
 - Diet Drugs



Why they take it

- 
- › 4 Different levels or plateaus: (Levels vary)
 - First: 100mg-250mg: Very empathetic, robo walking followed by drippy feeling. Party dose
 - Second: 250mg-450mg: More euphoria, decreased sense of surrounding
 - Third: 450mg-800mg: Hallucinations are present, mostly in spirals or visions of fluid
 - Fourth: 800mg-1800: Out of body experience
 - Fifth: >1800: Overdose

(Robotussin Max Strength 354MG)

“Anything above 1200mg you should be close to hospital”



- › S/S will depend on the dose and other drugs in the system:
 - Profuse sweating
 - Extreme Nausea
 - Blackouts
 - Respiratory depression
 - Vision
 - Tachy
 - Spasm of the abd and intestines
 - Can last up to 48 hours
- › Treatment is supportive
- › Is there any reversal agents for DXM?



Who am I?

- > I am a powerful stimulant
- > I come in many forms
- > You can use me to stay awake
- > I am used to help people with ADHD
- > I can be used to help people with depression
- > You can use me to get high
- > But, sometimes I can kill a child
- > In 2010, over 100,000 people were poisoned from me

SO WHO AM I?



TINE

378,500mg



.8mg/kg

80mg 220lb



- › E-Juice or Rock Juice
- › No FDA
- › No tamper proof lids
- › Middle School
 - Online



Last and Not Least

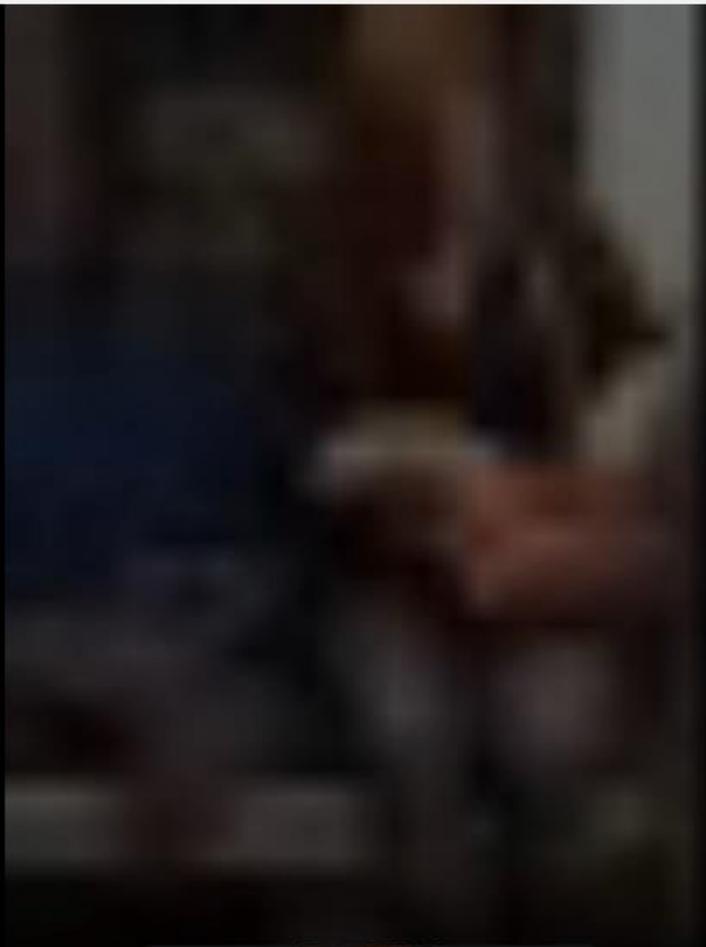
Alcohol

Prescription Meds
(Pain killers/Ritalin)





WHAT DOES ALL THIS MEAN??



0:00



Excited Delirium Syndrome

Agitation

Treatment Triad

Acidosis

Hyperthermia

“Treat the Triad!”

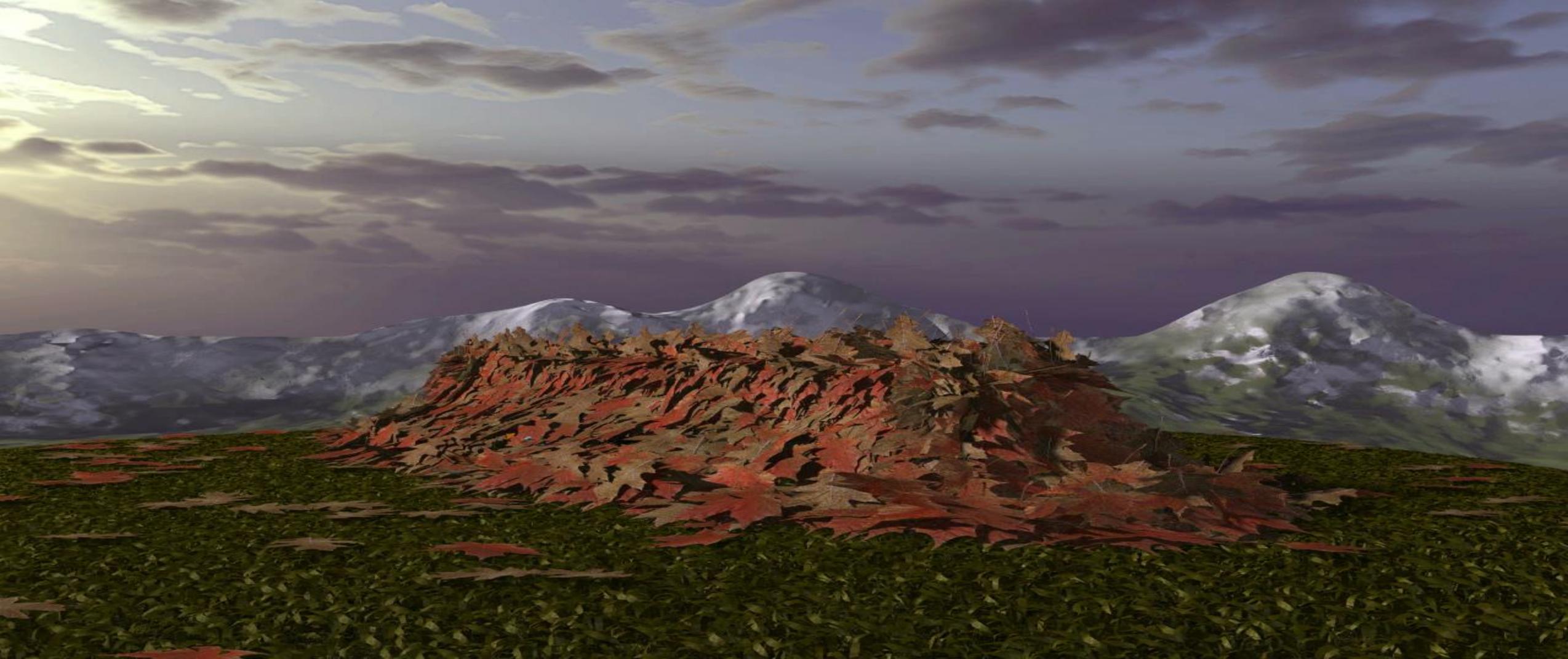
Source: Chief John Gardner (MDCFR); IPICD Conference – Nov. 2007 Las Vegas

In Hospital Treatment

How do we treat these patients once EMS gets them to us?

Treat the patient and not the package







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