



## New Trends in Street Drugs

NCNP May 13<sup>th</sup> 2016

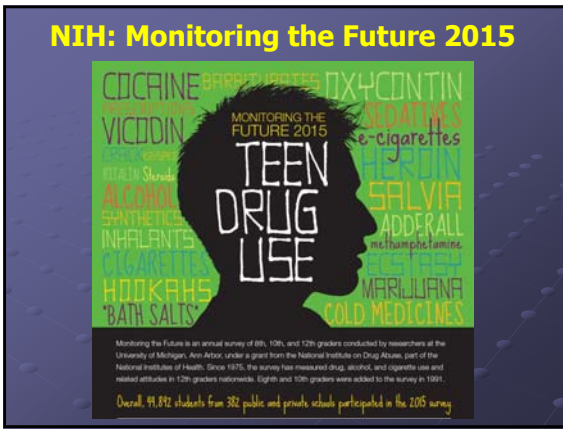
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Nurse Practitioner  
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Nursing

## Objectives

- Upon completion of this program the learner will be able to:
  1. Identify new trends in street drug use and legal highs
  2. Discuss some of the geographic, demographic and cultural factors of drug use
  3. Review signs, symptoms and treatment options of suspected drug use, withdrawal or overdose

## NIH: Monitoring the Future 2015



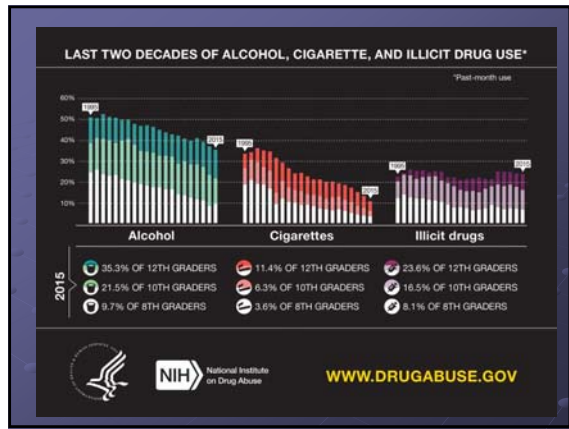
**TEEN DRUG USE**

Monitoring the Future is an annual survey of 8th, 10th, and 12th graders conducted by researchers at the University of Michigan, Ann Arbor, under a grant from the National Institute on Drug Abuse, part of the National Institutes of Health. Since 1975, the survey has measured drug, alcohol, and cigarette use and related attitudes in 12th graders nationwide. Eighth and 10th graders were added to the survey in 1991.



Overall, 99,842 students from 382 public and private schools participated in the 2015 survey.

### LAST TWO DECADES OF ALCOHOL, CIGARETTE, AND ILLICIT DRUG USE\*

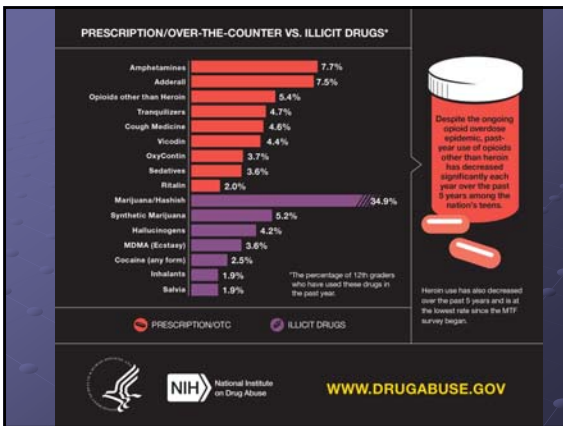
\*Past-month use



Year	Alcohol	Cigarettes	Illicit drugs
2015	35.3% OF 12TH GRADERS	11.4% OF 12TH GRADERS	23.6% OF 12TH GRADERS
	21.5% OF 10TH GRADERS	6.5% OF 10TH GRADERS	16.5% OF 10TH GRADERS
	8.7% OF 8TH GRADERS	3.6% OF 8TH GRADERS	8.1% OF 8TH GRADERS


 National Institute on Drug Abuse
 [WWW.DRUGABUSE.GOV](http://WWW.DRUGABUSE.GOV)



### PRESCRIPTION/OVER-THE-COUNTER VS. ILLICIT DRUGS\*



Drug Category	Percentage
Amphetamines	7.7%
Adderall	7.5%
Opioids other than Heroin	5.4%
Transquilizers	4.7%
Cough Medication	4.6%
Xanax	4.4%
OxyContin	3.7%
Sedatives	3.6%
Ritalin	2.0%
Marijuana/Marihuah	94.9%
Synthetic Marijuana	5.2%
Hallucinogens	4.2%
MDMA (Ecstasy)	3.6%
Cocaine (any form)	2.5%
Inhalants	1.9%
Bathes	1.9%

\*The percentage of 12th graders who have used these drugs in the past year.

Heroin use has also decreased over the past 8 years and is at the lowest rate since the MTF survey began.


 National Institute on Drug Abuse
 [WWW.DRUGABUSE.GOV](http://WWW.DRUGABUSE.GOV)

## Drug-Laced Candy

### Two types of drug-laced candy surfaced in two Florida counties:

- Bradenton: candy **laced with meth**. Agents found brightly colored packages that looked like bags of candy contained methamphetamine
- Miami-Dade: candy that resembled Sour Patch Kids candy, **laced with ethylone**, a synthetic drug - relative of methylone - a type of Bath salt similar to FLAKKA




The Strawberry flavored meth "Strawberry Quick" has been reported in several states including Missouri, Washington State, Wisconsin, and Texas, Nevada, and California

Senators Grassley and Feinstein sponsored a bill that would make it a federal crime to sell candy flavored drugs due to the appeal to children

## New Trends in Street Drugs

### National trends:

- Heroin on the rise regional
- Rx drugs use remains, but Heroin is cheaper alternative
- Hallucinogenic: LSD (Acid) and MDMA (Ecstasy, Molly)
- Cocaine and Methamphetamine – Regional
- Marijuana use and dependence has risen (plus introduction of Wax/Dabs)
- Synthetic cannabinoids (K2 and Spice)
- Synthetic Cathinones (Bath Salts, Flakka)
- “Legal Highs” Chemical Drugs – EG: N-Bomb, B-Fly, Internet Purchases



## Old Drug – New Trends... Heroin

May be smoked snorted or injected

Recently used as an alternative to Rx drugs

**Cutting Heroin:** When other substances are used to increase the bulk:

- Talcum powder
- Dextrose
- Flour
- Mannitol



## Symptoms of Heroin Use

### Short Term Effects

- Confusion, Disorientation, Delirium
- Cold and clammy skin
- “Rush” feeling a surge of euphoria
  - Accompanied by a warm flushing of the skin
  - Dry mouth, and heavy extremities
- “On the Nod” following the initial euphoria, this is a wakeful and drowsy state

## Long Term Effects of Heroin

### Pulmonary complications - Including pneumonia

- Organ complications (including Liver disease) and vessel damage due to the additives that the heroin was cut with

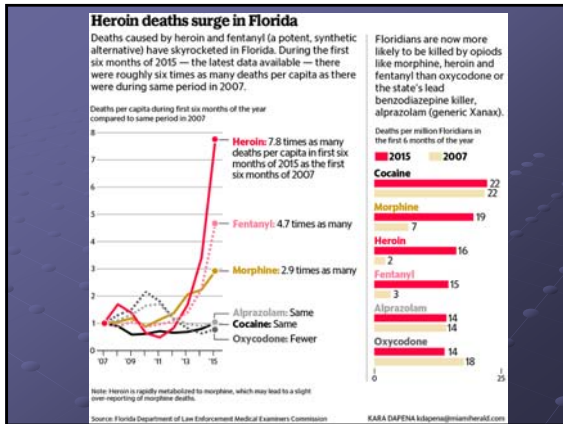
### Needle Users Long Term Effects

- Endocarditis
- Collapsed veins
- Abscesses
- Cellulites
- Infected sites
- HIV, Hep B and C in needle users



## Why is Heroin use increased?

- Oxycodone and prescription narcotics have become more difficult to attain
- Reduced availability means Street value increased
- On Friday, August 22, 2014, the DEA published the final rule (PDF) in the Federal Register
- Hydrocodone combination products rescheduled from Schedule III to Schedule II of the Controlled Substances Act (CSA).
- The DEA's rationale for the move is to combat prescription drug abuse



### A Controversial Response to Heroin Epidemic: Supervised Injections

Will having a safe place to shoot up help reduce overdose deaths and transmission of diseases?

By Megan Morris | Contributor | April 20, 2016 at 8:14 a.m.

Legislative discussions: supervised injection sites

The idea is to permit drug addicts to use illicit substances under the supervision and care of trained medical professionals.

The centers do not provide the drugs or admit people already under the influence.

Switzerland has implemented "people-centered" policy with supervised injection sites and substance analysis services and access methadone

## Fentanyl

- **Brand Names:** Actiq, Duragesic, and Sublimaze
- Synthetic Opioid analgesic (since 1960's)
- Fentanyl is a schedule II substance
- Rapid onset and short duration of action
- Prescription fentanyl: Diverted from medical facilities
- Street fentanyl: produced in clandestine laboratories, may be liquid or powder
- Approx 100 x more potent than morphine (DEA)

**Street names:**

- Apache
- China girl
- China white
- Dance fever
- Friend
- Goodfella
- Jackpot
- Murder 8
- TNT
- Tango
- Cash

<https://www.drugabuse.gov/drugs-abuse/fentanyl>  
[http://www.deadiversion.usdoj.gov/drug\\_chem\\_info/fentanyl1.pdf](http://www.deadiversion.usdoj.gov/drug_chem_info/fentanyl1.pdf)

## Fentanyl

- Deadly opioid overdoses becoming news stories nationwide
- Featured on CNN
- Small doses are lethal
- Responsible for increasing deaths: Florida, Ohio, Maryland
- Nine deaths and multiple overdoses in Sacramento, California in recent weeks
- **April 14<sup>th</sup>, 2016: Fox 32 News: Chicago**
- Will County: 53 overdoses and 18 deaths so far this year
  - Youngest 16 year old child to 73 year old grandmother
- DEA officials note that much of this synthetic fentanyl is coming from China or is being made in amateur labs here at home

## Fentanyl

**Effects include:**

- Analgesic, euphoria, relaxation,
- Nausea and vomiting
- Opioid constipation
- Confusion, Drowsiness, Sedation
- Unconsciousness, coma
- Respiratory depression
- Respiratory arrest
- Death

**Forms**

- Liquid injectables
- Transdermal patches
- Intranasal spray
- Lozenge or lollipop

- May be taken alone or may be mixed (or cut) with other drugs
- Mixing fentanyl with heroin or cocaine ↑↑↑ dangers

## Heroin and Fentanyl

**May 16, 2014: Fox News, Guilford Co, North Carolina**

- Multiple deaths due Heroin cut/mixed with Fentanyl
- 36 overdoses and 9 deaths in period of 15 days

**DEA Update March 18, 2015**

- DEA issued nationwide alert = dangers of fentanyl + its compounds - 50-100 times more powerful than morphine
- Vancouver, Canada, warned that fentanyl being concealed in non-injection drugs, oxycodone, marijuana and "party drugs"
- Because of this new threat, British Columbia officials are urging all recreational drug users to "know their source."

<http://www.drugabuse.gov/drugs-abuse/emerging-trends>

**May 4<sup>th</sup>, 2016: Orlando Sentinel, Orlando, Florida:**

- Orange, Osceola top in state for fentanyl and heroin deaths

## "Super pill" Fentanyl laced Xanax

ST. PETERSBURG, Fla: March 21<sup>st</sup>, 2016

- Killed 9 people in a matter of weeks
- The pill looks just like a Xanax
- The fake Xanax is mixed with Fentanyl: rapid overdose and death
- Origin is unknown
- Pinellas County appears to be the only place it's found
- Plus, it's super cheap – only \$5 a pill



Difficult to tell the difference.  
The counterfeiters operations have a pill press to create the have stamp that makes the pill look like a real xanax



**DEA** UNITED STATES Drug Enforcement Administration  
TOUGH WORK. VITAL MISSION.

HOME ABOUT CAREERS OPERATIONS DRUG INFO PREVENTION PRESS ROOM ESPAÑOL

San Francisco Office Location | San Francisco Division | San Francisco News

**SAN FRANCISCO NEWS**

April 15, 2016  
Contact: DEA Public Affairs  
Number: 913-330-3199

**Public Safety Alert from Drug Enforcement Administration Counterfeit Hydrocodone Tablets Containing Fentanyl**

**APR 15 (SAN FRANCISCO)** – Fentanyl, a powerful synthetic opioid, has been found to be mixed with counterfeit hydrocodone tablets throughout the Sacramento region since last week. The overdoses are occurring at an alarming rate and are the basis for this public safety alert. Fentanyl is an odorless substance considered to be 50 to 100 times more potent than heroin and 50 to 100 times more potent than morphine. Heroin is generally lethal, even at very low levels.

As of today, according to the Sacramento County Department of Health and Human Services there have been 36 opioid-related overdoses and nine deaths that have been reported. – Overdose victims range from 18 to 80 years of age, approximately 50% are male and 50% are female.

Public health and Law Enforcement officials believe that the pills containing fentanyl were likely sold on the street under the guise of being legitimate hydrocodone. Additionally, the pills are marked to resemble the authentic hydrocodone product, however, the Sacramento County Department of Health and Human Services reports that test results show that some of the tested pills did not contain hydrocodone, but other fentanyl.

The DEA urges the public not to take a prescription drug unless prescribed by your own physician and obtained from a reputable pharmacy.

The public can submit investigative tips anonymously to the DEA tip line. If there is an immediate threat to human health or safety it should be reported to your local police or law enforcement authority.

**CHASING THE DRAGON**  
Documentary  
DEA'S PRITTY  
DEA 150 Strategy  
Fact Sheet

**RESOURCE CENTER**

Controlled Substances Act  
DEA Museum and Visitors Center  
Doing Business with DEA  
Drug Enforcement  
Employee Assistance Program  
Extortion Scam Alert  
For Victims of Crime  
How do I...?  
National Classification Laboratory  
Regulator  
Registration for Practitioners  
Statistics & Facts

## Counterfeit Oxycodone Tablets containing Fentanyl

• DEA News Release: April 15, 2016

**Hundreds of Counterfeit Oxycodone Tablets Seized at Port of Entry Contained Ultra-Deadly Fentanyl**

- **APR 15 (SAN DIEGO)** – A suspected smugglers recent attempt to bring hundreds of counterfeit oxycodone pills through the Otay Mesa Port of Entry
- The seizure is believed to be the first time that federal officials along the California-Mexico border have intercepted counterfeit oxycodone tablets containing fentanyl as they were being smuggled from Mexico into the United States

## W-18 1-(4-Nitrophenylethyl)piperidylidene-2-(4-chlorophenyl)sulfonamide (W-18)

- Known as synthetic heroin
- "beans" or "shady 80s"
- Stronger than Fentanyl (? >100x)
- Synthetic opioid
- First invented at the University of Alberta, Canada in 1981 to make an Rx opiate for analgesia
- Some success saving life with Narcan
- Labs in China ship to North America via services such as FedEx



**April 26<sup>th</sup>, 2016: New Chanel 10, Tampa Bay FL Reported:**

- On April 20, Edmonton police seized four kilograms of W-18
- Last month, a Florida drug dealer convicted of importing fentanyl also had 2.5 pounds of W-18, the *Sun Sentinel* reported. The drug isn't illegal so it didn't factor into his sentence

Reports that Maine and Massachusetts have had cases of W-18 overdoses

## Krokodil



- Krokodil, "a toxic homemade opioid
- Used as cheap heroin substitute in poor rural areas of Russia – Heroin addiction is massive problem in Russia
- In 2011, estimated that as many as 2 million Russians were addicted
- Spread into Europe - Germany, France, Belgium, Sweden, Norway, Czech Republic, and Ukraine. Recently been featured in news reports alleging its appearance in parts of the United State
- Case reported in St. Louis - (Thekkemuriyi, John, & Pillai, 2014)
- July 9, 2015: Manchester, New Hampshir
- Russian Recipe: Caffetin, formic acid, tropikamide eye drops, add petrol and coo
- In USA: mixing codeine with gasoline, paint thinner, hydrochloric acid, iodine and red phosphorous. May substitute lighter fluid and industrial cleaners

Interesting report by British journalist: <http://all-that-is-interesting.com/krokodil>

## Krokodil

- Krokodil gets its name from the scaly, gray-green dead skin that forms at the site of an injection.
- The flesh destroyed by krokodil becomes gangrenous, and, in some cases, limb amputation has been necessary to save a user's life.
- Users often present with multiple scabs and skin infections.
- Users often smell of iodine
- U.S., many are hoping that the pictures of flesh rotting off the bone like the following will be enough to discourage any potential Krokodil users from ever trying this devastating drug



## Signs of Overdose

- Opioid OD triad (observed in Heroin and opiates)
  - Coma
  - Respiratory depression and failure
  - Depression of CNS – Miosis - pin point pupils
- Convulsions (Seizures)
- Hypoxia and Cyanosis
- Hypotension
- Bradycardia
- Respiratory depression – **Prepare to intubate**

**If found in community: Call 911 - Must go to ER – Even if Narcan given (short 1/2 life)**

- Naloxone nasal injection used in the community
- <http://getnaloxonenow.org/>

## Naloxone

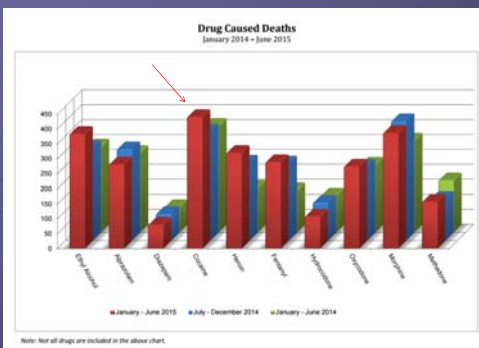
- CVS Health offers without prescriptions across 22 states
  - most recently Virginia – this week
- Walgreens also will be installing safe medication disposal kiosks in more than 500 pharmacies in 39 states
  - Walgreens: most recently added New Jersey – May 5th
- The federal government and pharmaceutical companies have also negotiated in extending the nearly 20 percent price cut for naloxone



## Withdrawal From Heroin and Opiates

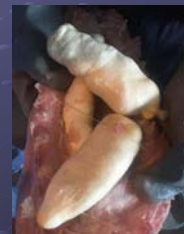
- Drug craving, Restlessness, Insomnia
- Intense pain: muscle and bone pain
- Vomiting and diarrhea
- Cold flashes with goose bumps ("cold turkey")
- Kicking movements ("kicking the habit")
- Withdrawal symptoms peak between 48 and 72 hours and subside after about a week.
- Sudden withdrawal by heavily dependent users in poor health is occasionally fatal
  - less dangerous than alcohol or barbiturate withdrawal
- Use in pregnancy leads to Neonatal abstinence Syndrome (NAS) in the baby

## Cocaine deaths ↑ 2014 to 2015 in Florida



## Cocaine News: May 9th 2016

- Two alleged drug smugglers in Brooklyn arrested for smuggling cocaine inside frozen fish
- 20 kilos of cocaine (street value of about \$600,000) found inside frozen fish
- Seized in Miami Airport
- Cocaine removed and fish replaced for their transport to Queens (under surveillance)



## 2015 Drug Trends: Cocaine

### Cocaine Powder

- Cocaine is a White crystalline powder
- **Freely soluble in water**
- Popular method: "Snort" lines with a straw, rolled up paper or \$ bill



### Crack Cocaine

- 'Free' the cocaine alkaloid 'base' from the salt
- No salt = ↑ combustion = ↑ Smoke
- **Not soluble**
- Intense high lasts 5-30 mins



## Signs of Overdose of Cocaine

- Tachycardia and Hypertension
- **Arrhythmias, Widened QRS/Q and prolonged QT segment**
- **MI/ ACS/ Coronary artery spasms that cause MI**
- V-Fib/ Cardiac arrest (High doses)
- Tremors, hallucinations and delirium
- Agitated (excited) delirium
- Seizures and convulsions
- **Hyperthermia** (Dopaminergic regulation of core temperature)
- **Rhabdomyolysis** (from Dopaminergic changes)
- Respiratory arrest
- Aortic Dissection
- Emboli may occur from injection

## Medications and Cocaine

### Treatments:

- Charcoal - Oral ingestion (especially stuffers/packers)
- Benzodiazepines and vasodilators for HTN (nitroprusside and NTG)
- Ventricular arrhythmias may respond to **sodium bicarbonate** (effects of cocaine on the Na<sup>+</sup> Channels), **lidocaine** (in combo with Benzodiazepines) and **Magnesium**

### Medications to Avoid:

- **Avoid Beta-blockers** - unopposed alpha responses (↑BP, ↓Coronary blood flow, ↓CO)
- **Avoid Calcium Channel blockers** (↑ ingested cocaine from GI, and may ↑ ICP). **Avoid** Nifedipine (Procardia, Adalat) ↑ seizures
- **Avoid some antiarrhythmics:** quinidine, procainamide, and disopyramide (Norpace) (class 1a) > QRS and QT intervals and slows the metabolism of cocaine

## Is Meth still a trend?

### May 10, 2016: KALIHI, OAHU

- Honolulu police arrested three men Tuesday following an early-morning raid at a suspected methamphetamine house in Kalihi
  - Hawaii tops the charts for meth use in the workplace

### May 09, 2016: Etowah County Alabama

- Arrested 7 men in meth distribution ring

### April 19, 2016: Clay County, Mississippi

- \$300,000 of street-worth crystal meth seized during traffic stop –

### December 15, 2016: Las Cruces, New Mexico

- 34 individuals face Federal and Tribal Charges Arising Out of Methamphetamine Trafficking on Mescalero Apache Reservation
  - 21 natives and 13 non-Natives are charged

## Methamphetamine

- A white odorless powder that easily dissolves in water or alcohol and bitter-tasting

### Street terms are:

- Speed
- Meth
- Poor man's Cocaine
- Crystal meth
- Chalk
- Crank
- Uppers
- Black Beauties
- Tweak
- Glass
- Ice
- Amphetamines
- Bikers Coffee
- Yaba (pills)
- Yellow Bam

### Use/Route:

Oral, Snorting, Smoking, IV or Rectal (Bootie bump)




## What does Meth look like?




### Short Term Effects

- Smoking or IV provides an intense sensation, called a "rush" or "flash,"
- Lasts only a few minutes and is described as extreme pleasure
- Oral, intranasal or rectal use Produces euphoria - a high, but not a rush



### Long Term Effects

- Skin abscesses appear as chemicals rise to the surface and Teeth rot from gum line
- Acute lead poisoning is a potential risk for methamphetamine abusers
- Risk of Parkinson's and alzheimers
- Heart failure
- Brain damage
- Stroke
- Epilepsy



42 year old recovered from meth after using for 3ys 5months  
Lost 40lbs and only has 2 teeth left

## Signs of Overdose of Methamphetamine

Symptoms of use and signs of overdose are very similar to cocaine. Treatments are also similar

- Hyperthermia
- Convulsions/seizures
- Anxiety, confusion, depression
- Chronic fatigue, insomnia
- Delusions, paranoia, aggression, hallucinations
- Toxic psychosis

## MDMA (Ecstasy/Molly) and LSD




## MDMA (Ecstasy)

**Street terms:**

- Ecstasy (pill)
- Molly (powder)

Also known as:

- XTC, X
- Adam
- Hug drug
- MDMA or MDA
- Dove
- Love, E





## MDMA (Ecstasy)

- 3,4 Methylendioxyethylamphetamine, (MDMA)
- Invented in 1912 for medicine, Patented by Merck 1914
- In the 1970's, it was used in psychotherapy
- Mid 1980's used as a street and illicit drug
- Schedule I drug with no current acceptable medical use
- MDMA tablets are usually sold with logos, creating brand names for users to seek out
- Colorful pills may be hidden among colorful candies




## MDMA (Ecstasy)

### How is MDMA Used?

- Can be snorted, injected, and rectally inserted, but is usually taken orally in tablet form
- Effects last approximately 4 to 6 hours
- Considered a "party drug."
- Rarely used alone, Commonly mixed with alcohol and marijuana
  - "Candy flipping" is the combination of MDMA and LSD
  - "Stacking" is taking three MDMA or more tablets at once
  - "Piggy-backing" is taking a series of tablets over a short period of time



## Molly - MDMA

- Molly—slang for "molecular"
- Usually contains Pure MDMA
  - Ecstasy often has additives such as caffeine or Methamphetamine
- Pure crystalline powder, or can be capsules containing powder
- Molly = street term to describe some "Bathsalts" such as Methyone: (bk-MDMA) or Mephodrone (meow meow) (especially in the UK)
- Molly = street term for Methamphetamine/meth combos
- User may not get what they expected with Molly



## Molly - MDMA

- Molly can be purchased in capsules for \$8 to \$40 per pill depending on location
- Molly had a surge in interest in the past few years, being celebrated frequently by actors and musicians
- Molly also comes in the form of high-priced, specially branded water, called Mollywatr (glow-in-the-dark container).

## Testing the Purity of Molly

- The bunk police risk prison to bring drug testing kits to music festivals
- Testing for impurities
  - Featured November 4 2015
  - Lisa Ling's CNN Report about designer drugs at music festivals
  - EDM Festival "Mysterland"
  - Electronic Dance Music
  - Risk: Dehydration, over heat, death




## MDMA (Ecstasy)

### Uses (why people use)

- MDMA in any form produces energy and euphoria
- Suppresses the need to eat, drink, or sleep
- Enables club-scene users to endure all-night / 2-3 day parties
- Eliminates anxiety
- Giggling uncontrollably
- Reduces inhibitions
- Produces feelings of empathy/affection for others
- Talking excessively
- Enjoying touching
- Enjoying being touched
- **Making it a Rape Drug**



## MDMA (Ecstasy)

**Reason for adjunct paraphernalia**

- Enhance the experience with lights and sound (glow sticks)
- Jaw muscle tension, Teeth grinding and involuntary clenching
  - Suck on pacifiers and candy to help relieve the tension
- Muscle tension and cramps
- Tremors and Twitching





Colored necklace and pacifier are popular "rave" accessories.

## MDMA (Ecstasy)

**Side Effects:**

- Dry mouth
- Dilated pupils
- Blurred vision
- Nausea
- Faintness
- Chills/Sweating
- Problems sleeping
- Depression
- **Dehydration**
- Tachycardia
- Hypertension
- Overheated - Increased core temperature
- **Hyperthermia 107-109°F**
- Loss of consciousness
- Seizures
- Confusion & Panic attacks
- Hepatic/Renal failure
- Death

## Lysergic Acid Diethylamide (LSD)

**Street terms: "acid",** Dots, Mellow Yellow, Loony toons, Blotter

- First discovered in 1938
- Produced in the US - on the West Coast, particularly San Francisco
- Effects are unpredictable from 30 mins to 12 hrs
- Schedule I - No currently accepted medical use in treatment in the United States
  - Odorless
  - Colorless
  - Slightly bitter taste
  - Usually taken by mouth
- Found as a liquid, microdot, sugar cubes, gelatin squares and blotters (soaked paper)





## Signs of Use/Side Effects of LSD

- Elevated BP
- Tachycardia, Palpitations
- **Hyperthermia**
- Elevated blood sugar
- Dilated pupils
- Tremors
- Gooseflesh
- Profuse perspiration
- Hallucinations, delusions and paranoia
- Panic reactions
- Flashbacks are a unpredictable and dangerous side effect
- Occur spontaneously
- Vary in frequency and duration
- May occur days up to months after use
- Increase occurrence during times of stress

## Management of overdose for Cocaine, Methamphetamine, MDMA, Molly, or LSD

- Treat as a Medical Emergency – Call 911 if not in the hospital
  - **Stabilize (ABC's), Oxygen, Monitor, IV**
  - **Code Cart –May need defibrillator**
  - **Prepare to intubate**
- No specific antidote is known
- Benzodiazepines for seizures and muscle spasms
- **Treat Hyperthermia** - use cold water, fans, cooling blankets, and anti-pyretics (Tylenol)
- Additional treatment depends on the presenting complaint and organ system involved

## Warning from Europe: "Superman" pills



*NIH Posted January 16, 2015*

- Alert Issued in The Netherlands warning about pills with a Superman logo, sold as MDMA (aka ecstasy or Molly)
- The drug actually containing a lethal dose of another substance, PMMA (paramethoxymethylamphetamine)
- PMMA is a stimulant and psychedelic drug closely related to the amphetamine-class serotonergic drug para-methoxyamphetamine
- These pills have not been reported in the U.S., but four deaths in the UK are thought to be related to these pills
  - <http://www.drugabuse.gov/drugs-abuse/emerging-trends>

## Cannabis and Synthetic Cannabinoids (K2, K9, Spice, and 'Herbal Incense')



### News and legal news about marijuana in Tampa, United States

Marijuana can be found in almost places in Tampa, Florida. The Florida Legislature considered possession of marijuana (under 20 grams) as a first degree offense that is penalized by up to a year in jail and fine of up to 1,000 US dollars. Depending on how you deal with the cops once you are caught, you may either just get a ticket/warning and promise to appear in court. Law enforcement against marijuana use is quite lenient during Guavaveen, Gasperita and other city events. If the police will see you smoking pot, most likely they will issue a yellow slip. Cops are not more concerned about marijuana users but rather, they are more focused on other serious crimes.

#### Where to buy weed and marijuana seeds in Tampa, United States

Ask any hippies you see in town and in clubs and you can also give it a try to ask youngsters in campuses. Also a good place to lookout is near the South Florida University and ask around in the small corner store type markets. As you stroll around the roads in USF, approach any hippies you come across with.

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

#### Prices and more information about cannabis in Tampa, United States

The prices of marijuana here in Tampa largely depend on the dealer. It can range from the lowest cost to average and high prices, depending on who is offering and how you haggle with the price. If you find that the price is too absurd, you can always say no and try to look for other dealers. A quad of medium grade cannabis will usually cost around 30 to 40 US dollars. In Tampa, you can have almost all sorts of Haze strains of different range of qualities. Other marijuana brands available are: Sour Diesel, Orange Crush, Purple, Lemon, Strawberry Cough and Crystal. Most that you can find are medium grade buds and some dirty weed. Always check on the quality before giving the money. Tampa is not really


[Grow Tube](#)
[GROWING MJ E-BOOK](#)
[Growing Marijuana](#)
[Bongs](#)

## THC – Wax/Dab - “dabbing”

- Potent - high level of THC psychoactive compound: up to 80% THC, (range 50-75%)
- Marijuana joint average 20% TCH
- Obtained from the cannabis plant
- Marijuana leaves and stems are soaked in a solvent such as butane which extracts the cannabinoids
- The residue is then dried out, resulting in a sticky paste
- Produced into : Viscous oil, hardened waxy substance, or brittle/glassy pieces

Known as:

- Hash (hashish) oil
- Wax
- BHO
- Honey Oil
- Budder or shatter




## THC – Wax/Dab - “dabbing”

#### How is it used:

- Smoked in vaporizers and water pipes
- e-cigarettes
- Edibles, drinks and liquids

#### Side Effects:

- Scary vision/Halucinations
- Psychosis/Mental health issues
- Tachycardia and Hypertension
- Increase in stomach acid



## E-Cigarettes and THC Biggest trends upward in teenage use

CHP: Teens converting e-cigarettes to use THC oil

By Noelle Walker  
KTVU.com

HOUSTON, Calif. — The California Highway Patrol is warning parents and teachers to look out for a new drug trend among teens: converting e-cigarettes to use with THC oil, the active ingredient in marijuana.

CHP public information officer Daniel Hill said KTVU's department uses social media and YouTube to keep up with rapidly changing drug trends.

"Kids at school are able to use their vaporizers relatively undetected in the classroom," said Hill.

That's because, like standard e-cigarettes, the converted e-cigs are odorless and smokeless.

HOUSTON: Teens converting e-cigarette to smoke THC oil.

The Patient ID Center in Oakland labels its medical marijuana





## Vaping 101: The Proper Hash Oil for Your Pen

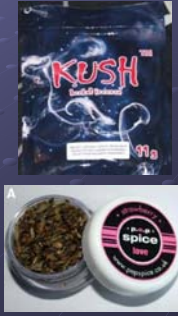


BY BRIBUS J. TUE, JUN 30, 2015

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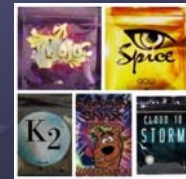
## K2, Spice Gold, and Herbal 'Incense'

- Plant material and herbs Sprayed/ laced with synthetic cannabinoids
- Compounds chemically similar to THC
  - Mimics the Psychoactive ingredients in marijuana (THC)
- The chemical compounds typically include HU-210, HU-211, JWH-018, and/or JWH-073
  - >100 such substances have been synthesized and identified to date
- Act on cannabinoid receptors found throughout the body (just like THC)
  - Not generally detectable by current drug screening methods (that look for THC)



## K2, Spice Gold, and Herbal 'Incense'

- How is it used:**
  - Most often smoked
  - Sometimes made into a Tea
  - Intravenously
- Why:** Mimic delirious effects of THC
- Street Names:** Hundreds of brands: Aroma, Banana Cream, Black Mamba, Bombay Blue, Cloud 9, Fake Weed, Genie, **K2**, **Mojo**, Nuke, **Scooby Snax**, SpicyXXX, **Spice**, Zohai



## Scooby Snax Herbal Incense

- One of the original most popular herbal incense blends on the market
- Original, Hydro, and flavored
- New 2<sup>nd</sup> Generation
- Available for next day shipping
- \$20.99 for 4 grams (16.99 for original)
- \$34.99 for 10 grams (as of 4/2/15)



## K2, Spice Gold, and Herbal 'Incense'

- Commonly purchased in head shops, tobacco shops, gas stations, retail outlets, and the Internet
- Often marketed as Herbal Incense, Potpourri, or "fake weed."
- Users consider it a "Legal high"
- Many states have banned some substance involved in making it
- An example of deceptive language used on Spice labels 'not for human consumption'
- Once banned, compound is modified to avoid laws
- Desired Affects:** Euphoria & giddiness



## K2, Spice Gold, and Herbal 'Incense'

### Side Effects:

- Arrhythmias, palpitations, chest pain, ↑ HR, ↑ BP
- Dyspnea and diaphoresis
- Appetite changes, nausea and vomiting
- Severe agitation, irritability, anxiety, and paranoia
- Intense hallucinations,
- Paranoia and psychosis
- Panic attacks, psychotic episodes, and suicidal fixations
- Muscle spasms, tremors and seizures
- It appears to be stored in the body for long periods of time, and therefore the long-term effects are not fully known.



## DEA News – October 2015

### 151 Arrested in DEA-Led Investigation of Synthetic Drug Rings

Expose Chinese labs producing for U.S. and global consumption; proceeds flow to Middle East countries

**OCT 15 (WASHINGTON)** - The Drug Enforcement Administration (DEA), Immigration and Customs Enforcement (ICE) Homeland Security Investigations (HSI), Customs and Border Protection (CBP), along with other federal, state, and local law enforcement today concluded a 15-month, nationwide drug interdiction effort that resulted in 151 arrests in 16 states. The enforcement action, known as Project Synergy III, targeted the synthetic designer drug industry, including wholesalers, money launderers and other criminal facilitators. In addition to curbing the flow of synthetic drugs into the country, Project Synergy III continues to reveal the flow of millions of dollars in U.S. synthetic drug proceeds to countries of concern in the Middle East.



Cash, money and synthetic drugs seized as part of Project Synergy III

Total cash and assets seized (approximately):	\$15,013,522.25
Synthetic Cathinones seized:	316 kilograms
Synthetic Cannabinoids:	3,058 kilograms
Treated plant material:	98 kilograms
Synthetic Cannabinoid Packs (filled):	7,314 kilograms
Weapons:	39
Arrests:	151
Search Warrants:	49

## Cathinones – Natural vs Synthetic

- Khat natural Cathinone
- "Bath salts" chemical formulas






## Cathinones - Natural vs Synthetic

- **Natural Cathinone**
- **Khat (Quat, Cot, Tea)**
- Cathinone is an alkaloid
- Leaves of the khat bush
- Grows in East Africa and in southern Arabia
- Used for its euphoria and stimulating amphetamine-like properties
- Hallucinogenic and entactogenic
- DEA reports that 10 million people worldwide chew khat
- **Synthetic Cathinone**
- **Bath salts (Group name)**
- Chemically structurally Cathinone
- Like Amphetamines, they stimulate the CNS and have sympathomimetic features.
- Emerged in the recreational drug markets as legal alternatives ("legal highs") to amphetamine, ecstasy, or cocaine
- (Valentine et al, 2013)

## Effects: and Side Effects

- Khat contains a number of chemicals two are controlled substances:
  - **Cathinone (Schedule I)**
  - **Cathine (Schedule IV)**
- **Desired effects:**
  - Excitement, Euphoria, Hyper-manic states, Hyperactivity, talkative
- **Side Effects:**
  - Insomnia
  - Extreme thirst, Loss of appetite
  - Constipation
  - Dilated pupils (mydriasis)
  - Tachycardia + Hypertension
  - Delusions of Grandeur
  - Paranoia
  - Hallucinations
  - Manic behavior
  - Irritability and anger



## Synthetic Cathinones (Bath Salts)

- Synthetic chemical stimulants
- Stimulant effects similar to cocaine, amphetamines, Khat, LSD, and MDMA
- Increases dopamine, serotonin, and norepinephrine in synapses
- Marketed as "bath salts" to evade detection (Not to confuse with bath products or Epsom salts)
- Originally synthesized in the 1920s
- Recreational in UK & Europe 2009, USA in 2010
- Majority of synthetic cathinones don't show up on drug tests






Synthetic Drug Abuse Prevention Act of 2012 - reclassified 24 additional synthetic compounds as Schedule I drugs, but new synthetic substances are created each year (drug companies remain one step ahead)

## Synthetic Cathinones (General)

**Duration:** 4 to 8 hours

**Route:**

- Sniffing/snorting (Most common)
- Oral ingestion
- Smoking, vaporization,
- Intravenous, intramuscular
- Rectal insertion
  - MDPV (bath salts) loses potency when Dissolved, rarely used IV/IM





**Desired effects:**


- Reported by users:
  - Increased energy
  - Empathy, Openness
  - Increased libido, Enhanced Sexual experience

## Synthetic Cathinones (General)

- **User Reports: Highly addictive with intense cravings**
- **Side Effects:**
  - Tachycardia
  - Hypertension
  - Vasoconstriction
  - **Feeling extreme heat**
  - Diaphoresis
  - Prolonged panic attacks
  - Agitation, Psychosis
  - Paranoia, Hallucinations
  - Seizures
- **Higher doses/Overdose:**
  - Severe Hyperthermia
  - Rhabdomyolysis
  - Hepatic and renal failure
  - Cardiac injury
  - Death

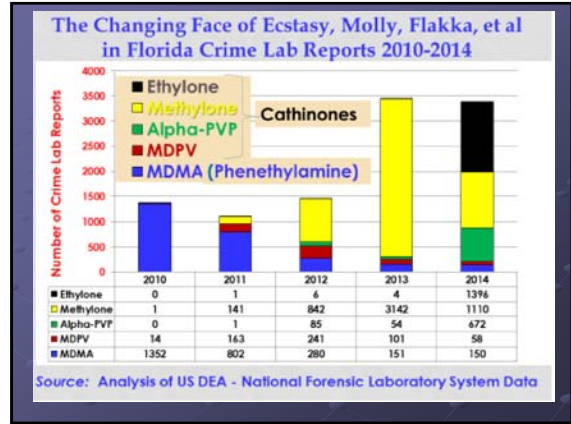


Smoked bath salts in the maternity ward, was found running naked, kicked a nurse and bit a police officer



- Usually marketed with the warning
- **"Not intended for human consumption."**
- Most often found in college towns in head shops novelty stores, convenience stores, and gas stations.
- Sold over the Internet
- Users want to get high without engaging in criminal activity

- **MDPV: Bath salts**
- **Mephedrone: Meow-Meow**
- **Methylone: bk-MDMA** Not to be confused MDMA = Ecstasy
- **Alpha PVP – Flakka**
- **Ethylone**



### Methylenedioxypropylvalerone (MDPV)

**Street Names:**

- Bath salts
- Energy-1
- Ivory Wave
- Plant food
- Plant fertilizer
- Vanilla Sky
- Avalanch
- Bonsai Fertilizer
- Shock Wave
- Purple Wave
- Jewelry Cleaner



- Psychological effects duration approx 3 to 4 hours
- Mild stimulation lasts from 6 to 8 hours
- MDPV has 4x times the potency of methylphenidate (Ritalin, Concerta)

### Headliners: High on Bath Salts:

- **Miami: May 30<sup>th</sup>, 2012**
  - 31yr Rudy Eugene - Miami highway ramp, naked, and attacking a 65-year-old homeless man
  - The attack lasted 18 mins
  - He chewed off 75% the victims face
  - He was fatally shot by police
  - Bath salts were suspected, but never proven
- **Charleston, West Virginia: 19 Man** stole and killed his neighbor's goat. He was found in his bedroom, dressed in a bra and panties next to the dead animal




### 4-methylmethcathinone - Mephedrone

- **Street terms:**
  - M-Cat, Meow Meow, drone, bounce, mad cow, Bliss
  - Mephedrone mixed with methylone = bubbles
- **Used:** A white powder, capsules, or tablets
- Generally the Same desired effects, side effect as MDPV
- Most common side effect: teeth grinding - also found in MDMA (Ecstasy, X, Molly)
- Problem in UK and now India
- Like with MDPV: Mephedrone producing similar effects to MDMA, Amphetamines and Cocaine



### Headliners: High on Bath Salts: Meow Meow

**January 13<sup>th</sup>, 2014**

- West Sussex, UK:
  - 19yrs old Student high on **meow meow**
  - Stabbed his mother
  - Then sliced off his own penis
  - Was found hanging out of a window with blood gushing from his groin
  - Mother, 46, called EMS
  - Both parent and son survived, and surgeons were thought to have re-attached his penis

• [Huffington Post UK](#)

## Methylone: (bk-MDMA) N-methy-3,4- Methylenedioxycthinone

- **Methylone:** Currently encouraged as a "safe" alternative to amphetamines
- Available in US in powder and crystal form
- Purchase on the internet
  - Delivered in 3-5 days (Dr. Synthetic ships from Bulgaria and China)
  - **\$100 for 10 gms**
- Europe: Sold in plastic tubes containing 5 mL of liquid.
  - "room odorizer" or "Explosion"
  - **Also may be named/sold as Molly**



## Suppliers available online and in Florida - Miami

**Methylone Crystal**  
We are one of the top suppliers in wholesale and retail of methylenedioxy and other plants research chemicals

**Chem Store Co. Limited**  
USA  
Miami, FL 33009 - View Map  
Phone: (305) 497-8141  
Web: <http://www.chemstoreco2@gmail.com>

**Description**  
We thank to know you deal with research chemicals we are professional supplier of research chemicals of 99.99% pure and ship world wide we sell at moderate prices and our product is the best you can find around we supply following products: Ethylene Methyleno A, PVP, MDPV, Crystal MDMA, 4 OAC, 4 OAC, 4 OAC, CHROMICIA, Mephedrone, 3,4-Methylenedioxy-N-Methylamphetamine (bk-MDMA), 3,4-Methylenedioxy-N-Methylamphetamine (bk-MDMA), 3,4-Methylenedioxy-N-Methylamphetamine (bk-MDMA)

## Alpha PVP - Flakka

- Alpha-Pyrrolidinopentiophenone,  $\alpha$ -PVP, alpha-PVP, O-2387,  $\beta$ -ketone-prolintane, Prolintanone
- Second generation synthetic cathinone
- Stimulant compound developed in the 1960s
- The mechanism of action is unknown - believed to act similarly to the designer drug MDPV,
- May act as a norepinephrine-dopamine reuptake inhibitor (NDRI)
- Street terms:
  - Flakka/Flocka/Flocca (Florida)
  - Gravel (other parts of the US)
- DEA Schedule I, but chemical manipulation changes are made - making new versions of the drug

## Alpha PVP - Flakka

- Flakka, usually comes in crystalline rock,
- It can be swallowed, snorted, injected, or used in an e-cigarette and vaped.
- The duration last as few as 3-4 hours, but can also linger for several days
- **Deadly Side Effect: Hyperthermia 105-106 f**
  - Leading to kidney failure, and rhabdomyolysis
- The drug is highly addictive, both from a physical as well as a psychological perspective.



## Alpha PVP – Flakka or Gravel

- July 2015: 'flakka' shakes Kentucky county, Small town of Vanceburg, Kentucky
- Case: Ashley lost 50 pounds, blew through \$15,000 of a settlement and sold her house for \$700 using Flakka for 6 months



- Melbourne, FL – April 15 2015
- Florida man high on flakka attacked officer
    - "I am God"
    - Committed a sexual act on a tree

## Ethylone

- **Ethylone, also known as 3,4-methylenedioxy-N-ethylcathinone (MDEC, bk-MDEA)**
- Recreational designer drug classified as an entactogen, stimulant, and psychedelic of the phenethylamine, amphetamine, and cathinone chemical classes
- It is the  $\beta$ -keto analogue of MDEA ("Eve")
- In the United States, it began to be found in cathinone products in late 2011
- Schedule I Controlled Substance



## Butylone

- **Butylone**, also known as  **$\beta$ -keto-N-methylbenzodioxolylbutanamine (bk-MBDB)**
- It is an entactogen, psychedelic, and stimulant of the phenethylamine chemical class.
- It is the  $\beta$ -keto analogue of MBDB
- Butylone is produced as a white crystal
- Similar effects as MDMA (Ecstasy) and MDBD (**Eden and Methyl-J**)
- It causes an increase in the levels of extracellular serotonin and dopamine.
- Schedule I Controlled Substance



## General Chemicals (sometimes known as Bath Salts)

- Drugs in the "Bath salts" group usually contain hallucinogenics biochemically characterized as analogs of mescaline or LSD
- **Mescaline** is a natural hallucinogenic **phenethylamine** compound found in the peyote cactus
- **Phenethylamine** hallucinogens are similar to the effects of **Mescaline**
  - **Eg: 2C-I (India) and Bromo DragonFly (B-Fly) Ethylone and Butylone**
- **Tryptamine** hallucinogens are similar to **LSD**
  - **EG: N-Bomb (Smiles)**
  - The LSD analog 25I-NBOME was the most common hallucinogen detected as part of our 4-year surveillance program in Arkansas

## Additional Chemical Drugs you may hear about in this group

- 2,5-Dimethoxy-4-(n)-propylthiophenethylamine (2C-T-7)
- **Street Names: Blue Mystic, T7, Beautiful, Tripstay, Tweety-Bird, Mescaline**
  - psychedelic phenethylamine
- 5-Methoxy-N,N-diisopropyltryptamine (5-MeO-DIPT)
- **Street Names: Foxy, or Foxy Methoxy**
  - psychedelic tryptamine



## Ethylone Crystal, A-PVP, MDPV, Methylone, Butylone for sale

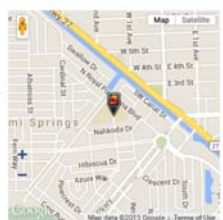
Ethylone Crystal, A-PVP, MDPV, Methylone, Butylone for sale

**Locations:** 1 ave park, Miami, FL, 33125.  
**Date(s):** April 1 - November 1, 2017  
**Time:** 10am - 12am

We are professional producer of all kinds of research chemicals in any quantity you want. Our products Includes;

Ethylone  
Methylone  
MDMA  
Meghedrone  
Ketamine  
Heroin  
cocaine  
Speed  
Methamphetamine  
Amphetamine  
Meth Crystal  
MDPV  
A-PVP  
LSD  
Ephedrine hcl  
Pseudoephedrine hcl  
PIPERONYL METHYL KETONE OIL/POWDER

Our quality is the best you can find around and we sell in small/large quantities with guaranteed discreet delivery in good time.



**Ethylone Crystal, A-PVP, MDPV, Methylone, Butylone for sale**

### Police say drugs were sold out of Florida daycare

Police say drugs were sold out of daycare

JORDAN PONDER MADISON PONDER VIRGINIA PONDER JESSE PRYOR

FOX 35 POLICE: DRUGS SOLD OUT OF DAYCARE NEW

**PCP and marijuana were being sold out of a family owned daycare center (Oviedo, FL)**

Website: <http://www.fox13news.com/news/local-news/45832890-story>

## PCP (Phencyclidine)

- PCP is a white crystalline powder that is readily soluble in water or alcohol. (bitter chemical taste)
- Available in tablets, capsules, and colored powders
- Usually snorted, smoked, or ingested.
- Distorts perceptions of sight and sound
- Produces feelings of detachment (dissociation) from the environment and self
- Distorts perception of pain

**Street terms:**

- Angel dust
- Ozone
- Wack
- Rocket fuel

If mixed with Marijuana it may be termed

- Killer joints
- Crystal supergrass

## PCP (Phencyclidine)

**Symptoms of Use or Overdose:**

- Agitated and irrational behavior
- Feelings of Detachment from reality
- Distorted body perception
- Delusions, hallucinations, paranoia, and catatonia
- Speech is often sparse and garbled
- Overwhelmingly strong, no awareness of pain
- Severe Anger, Violent, Homicidal or suicidal
- Nausea, vomiting, dizziness,
- Seizures, Coma, and death

## Wetstick

- "Wet" and "Wet Sticks"
- Marijuana cigarette dipped in liquid PCP or have PCP inserted inside a marijuana cigarette
- May also be laced with embalming fluid
- Street terms are:
  - Wet Sticks
  - Amp
  - Wet
  - Sherm
  - Happy Sticks

**Symptoms of Use: Same as PCP**

- Coma
- Convulsions
- Rage / violence
- Blackouts
- Respiratory failure
- Kidney failure



## New Drug Trends – Legal Highs

- New synthetic or herbal products are emerging
- Marketed along the same pathways:
  - Gas stations
  - Convenience stores
  - Gardening/plant stores
  - Online
- Google search for "legal high"
  - K2 and Spice are high on the google search listings



## New Drug Trends – Legal Highs

- Law enforcement and legislation challenges
- Availability and "Not for Human Consumption" notice
- The internet also offers users information on how to use the drugs and how to share their highs and other drug-related experiences online
- You can seek questions like: "How will taking a dose of this product affect me?"
- The Names are deceiving
- The results are unpredictable



## Benzo Fury or 6-APB

- Colorless stimulant, sold in powder and pellet or tablet form for oral consumption
  - Can also be snorted
- Compound of the phenethylamine and amphetamine classes
- Marketed as a "research drug", "not suitable for human consumption"
- Currently unscheduled in the U.S.
- \$15-16 U.S. dollars) per pill/pellet
- Effect within 30 to 60 minutes
- Effects plateau after approx 2 hours
- May last up to 10 hours



- Sold primarily through websites claiming to be suppliers of research chemicals
- There are multiple websites – Biggest supplier in UK



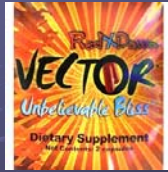
### Affects are the similar to MDMA (Ecstasy):

- Alertness, increased energy, euphoria, feelings of peace and love toward others, tingling feelings, and intense sexual responses
- Dilated pupils, tightening of jaw muscles, raised body temperature, tachycardia, anxiety/panic attacks and paranoid/confused states.

## Red Dawn Vector Unbelievable Bliss

- **Advertised as:**

- "OUR customers tell us this is our best herbal pill product"
- BLISS is a mood enhancer composed of natural herbs
- **Effects include extreme aphrodisia and mood enhancement.**
- **Website Review:** Our team and many satisfied repeat customers agree this is the best herbal energizer and mood enhancement product available



- **User Notes:** Use strictly one capsule at a time; though you can take another 1 1/2 hrs later, if desired
- Contains 2 Capsules
- \$11.95

## Smoking Alcohol

- Become drunk without the extra calories
- Vapor inhalation takes the person from sober to drunk within seconds
- Hangovers may be reduced

- **How is this done?**

- Use a plastic bottle, fill with alcohol and seal with a cork
- A hand tire pump is then used to pump air into the bottle to increase the pressure
- A vapor develops when the pressure mixes with the alcohol
- Once the vapor is seen, the cork is pulled off and the vapors are inhaled through the mouth and nose
- Sometimes used with dry ice: Once the dry ice mixes with the alcohol, a vapor will develop



## Smoking Alcohol



- **Risk of overdose:**

- When a person drinks too much alcohol, the body induces vomiting to eliminate it. This does not happen with smoking alcohol.
- Smoke alcohol bypasses the stomach and intestines and is not broken down in the liver.
- The person does not have this safety net to prevent alcohol poisoning.
- Overdose risk is much higher due to the fact that the body has not broken down the alcohol.

## Powdered Alcohol

- Coming soon to a liquor store near you: Currently available online
- Legal, but banned in some states
- Manufactured with Dextrin to be diluted in water to make alcoholic beverages
- Abused by snorting



## Caffeine Powder

- Overdose lead to the death of an Ohio high school
- Prompted the FDA to issue a safety advisory about caffeine powders
- Bulk bags of pure caffeine powder are readily available online, and attractive to young people for energy/stimulation or for help losing weight
- Just a teaspoon of pure caffeine powder is equivalent to about 25 cups of coffee—a lethal amount



- Arrhythmias, seizures, vomiting, diarrhea, and disorientation, death
- The FDA recommends that consumers avoid caffeine powder and parents be alert to their hazards

## Drug Paraphernalia



## Determining Use and Overdose



Hollow paper adapted to conceal drugs.



Squeeze bottle filled with GHB.

### Look for clues – Paraphernalia

- Does anything look like a pipe?
- Shake a bottle of water to test for GHB
- Look for empty soda cans (with holes in)
- Candy, Bubbles, glow-sticks



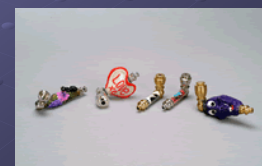
Gas mask converted to drug pipe.



Lipstick dispenser hides drug pipe.



Felt tip marker with internal drug pipe.



Assorted collection of drug pipes.

## Smuggling



**Smuggling Trick: Using plastic water bottles with a hidden compartment for drugs.**

## DEA News – May 6<sup>th</sup>, 2016

- **DEA Collects Record-Setting Amount of Meds at Latest National Rx Take-Back Day**
- **MAY 06 (WASHINGTON)** - Americans turned in more unused prescription drugs at the most recent DEA National Prescription Drug Take-Back Day than on any of the previous 10 events since it began in 2010, demonstrating their understanding of the value of this service.
- Law enforcement partners collected 893,498 pounds of unwanted medicines—about 447 tons—at almost 5,400 sites - through all 50 states
  - Texas (almost 40 tons); California (32 tons); Wisconsin (31 tons); Illinois (24 tons); and Massachusetts (24 tons)
- 8/10 new heroin users began by abusing prescription painkillers and moved to heroin when they could no longer obtain or afford those painkillers



- Questions?
- [Andreaefre@yahoo.com](mailto:Andreaefre@yahoo.com)

