



New Trends in Street Drugs and Legal Highs

2017 – NCNP



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and
Professor in Graduate
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

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Teen Drug Use - NIH Study

Trends for Teens

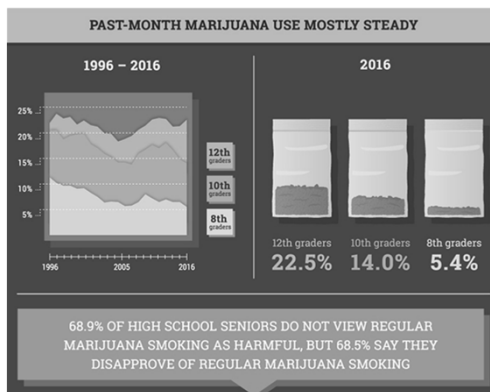
- Alcohol and cigarettes continue to decline
- Teens are more likely to use E-Cigarettes than cigarettes
- Also more likely to use flavoring

Prescription and Illicit Drug Use

- Prescription drug use and prescription opioids have decreased
 - Despite high use and ODs in adults
- Vicodin use has dropped in the past 5 years
- Across all grades we have lower rates of inhalants, heroin, meth, synthetic cannabinoids, alcohol, and cigarettes

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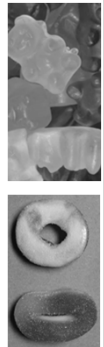
- Marijuana use and accepting remain high



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Drugs Targeting Teens

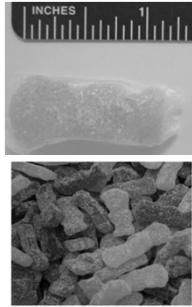
- WGN TV: December 6th, 2016: Naperville IL: Drug-laced candy sends 13 students to hospital. Symptoms of tachycardia, dizziness and dry mouth: thought to be liquid based marijuana
- DEA News: March 24th 2016: (BOISE, Idaho): Two men from Soldotna, Alaska, were indicted - synthetic cannabinoids (Spice) with flavor labels such as Mango, Grape, and Cotton Candy
- WSB-TV 2: North Fulton County, GA. - Police warning Seized nearly 20lbs of drug-laced candy from a home - gummy worms, peach rings and chocolate-covered caramels laced with THC
- WFLA New 8: St Petersburg, FL: drug laced gummy worms sent 5 high school students to the hospital hospital after eating drug-laced gummy worms (one gummy tested +ve for THC)



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Targeting Youth: Drug-Laced Candy

- 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
- Also there are reports of Flakka in gummy bears in 2015 and 2016



Flakka can turn up in many forms that appeal to young people. Here is an example from the Miami-Dade Police Department of flakka in gummy bear form.

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ABC News: SAN FRANCISCO August 8th, 2016

- **Marijuana Edibles**
- THC laced gummy candies
- 19 guests hospitalized at quinceañera (traditional 15th birthday party)
- 13/19 were under 18 years old including a 6-year-old child
- The 19 were hospitalized Saturday, but all of them were released by Monday
- Investigating: if candies were intentionally placed at the party to target children, which would be a serious crime, or accidental placement



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- Mr. Grassley and Mrs. Feinstein introduced the following bill
- "Protecting Kids from Candy-Flavored Drugs Act of 2017"
- Read twice and referred to the Committee on the Judiciary

115th CONGRESS
1st SESSION **S. 739**

To amend the Controlled Substances Act to provide enhanced penalties for marketing candy-flavored controlled substances to minors.

IN THE SENATE OF THE UNITED STATES
MARCH 28, 2017
Mr. GRASSLEY (for himself and Mrs. FEINSTEIN) introduced the following bill, which was read twice and referred to the Committee on the Judiciary

A BILL

To amend the Controlled Substances Act to provide enhanced penalties for marketing candy-flavored controlled substances to minors.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*
3 **SECTION 1. SHORT TITLE.**
4 This Act may be cited as the "Protecting Kids from
5 Candy-Flavored Drugs Act of 2017".

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Children may be the user, or the victim of someone else's drug use



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New Drug Trends – Legal Highs

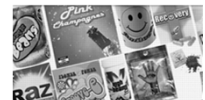
- "legal highs," "designer drugs," or "research chemicals."
- Collectively known as "new psychoactive substances" (NPS)
 - e.g., "bath salts", "spice", "N-bombs"
- Synthetic alternatives to traditional illegal drugs of abuse
- Substances with stimulant or mood-altering properties whose sale or use may not be currently illegal
 - Designed to produce the same, or similar effects, to drugs such as cannabis, cocaine, methamphetamine, LSD and/or ecstasy, but structurally different enough to avoid the law
- Marketed:
 - Gas stations
 - Convenience stores
 - Gardening/plant stores
 - **Online**



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New Drug Trends – Legal Highs

- Availability and "Not for Human Consumption" notice
- Law enforcement and legislation challenges
- The internet also offers users information on how to use the drugs and how to share their highs and other drug-related experiences online
- Google search for "legal high" (44,800,000 results/ 0.43 seconds)
 - K2 and Spice are high on the google search listings
- You can seek questions like: "How will taking a dose of this product affect me?"
- The Names are deceiving
- The results are unpredictable

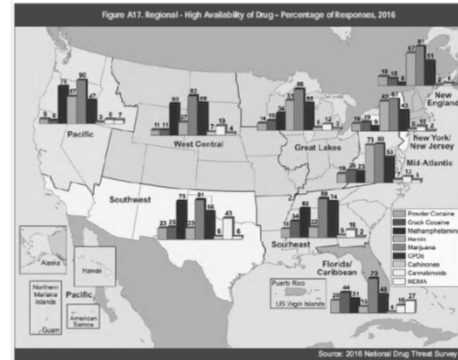


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National Trends in Street Drugs

- Opiates: "Epidemic"
 - Heroin - cheaper alternative to Oxycodone
 - Rx drugs remain a problem
 - Street Fentanyl and Xanax – Synthetic or diverted
 - Synthetic Opiates: eg: W-18, Pinky
- Synthetics New Psychoactive Substances (NPS) aka "Legal Highs"
 - Synthetic Cannabinoids (K2 and Spice)
 - MDMA (Ecstasy, Molly)
 - Synthetic Cathinones (Bath Salts, Flakka)
 - Chemical Drugs – EG: N-Bomb, B-Fly, Internet Purchases
- Marijuana (Wax/Dabs)
- Cocaine, PCP and Methamphetamine – Regional

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- Table was taken from the DEA: 2016 National Drug Threat Assessment Summary, November 2016

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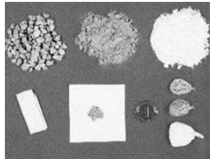
Old Drug – New Trends... Heroin

Recently used as an alternative to Rx drugs

May be smoked snorted or injected

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

- Talcum powder
- Dextrose
- Flour
- Mannitol



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Heroin Epidemic

Heroin epidemic so severe that many funeral homes can't keep up with demand

Saturday, March 11, 2017 by Thomas Dishaw
Tag: drug overdose, drugs, Heroin, Huntington, overdose, West Virginia

3,630

- West Virginia
- Drug overdose death rate - Highest rate in the country and nearly three times the national average
- On August 15, 2016, 28 overdoses in a five-hour span
- <http://www.naturalnews.com/2017-03-11-heroin-epidemic->



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Why is Heroin use increased?

- Oxycodone and prescription narcotics have become more difficult to attain
 - One theory for young peoples heroin use is that prescription Rx (Vicodin, OxyContin or Percocet) are easily be found in a parent's medicine cabinet, leading to addiction
- Reduced availability Rx means Street value increased, whereas heroin is much cheaper
- Hydrocodone combination products rescheduled from Schedule III to Schedule II of the Controlled Substances Act (CSA)
 - The DEA's rationale for reducing controlled prescription drug abuse
- Mexican drug cartels are thought to be fueling US heroin, with easy access, cheaper product and a network of traffickers in place

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Symptoms of Heroin Use

Short Term Effects and Side Effects

- Confusion, Disorientation, Delirium
- Sudden changes in behavior or actions
- Dry mouth
- Shortness of breath
- Constricted (small) pupils
- 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

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Long Term Effects of Heroin

- **Pulmonary complications** - Including pneumonia
- Pulmonary emboli and DVTs
- 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



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Figure 75. Local Billboard in Milwaukee, Wisconsin



- Table was taken from the DEA: 2016 National Drug Threat Assessment Summary, November 2016

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Symptoms of Withdrawal

Patient will most likely have intense heroin cravings – However, they may not tell you why they are having symptoms

- Abdominal pain
- Arthralgia (bone aches)
- Crying
- Chills and/or cold sweats
- Diarrhea
- Depression
- Feeling of heaviness
- Fatigue
- Fever
- Goose bumps/ Goose flesh ("cold turkey")
- Insomnia
- Intense cramping in limbs, resulting in "kicking"
- Myalgia (muscle aches)
- Nausea and vomiting
- Nervousness and agitation
- Rhinorrhea (runny nose)
- Sweating
- Shaking

Withdrawal From Heroin and Opiates

- 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 – but less dangerous than alcohol or barbiturate withdrawal
- Use in pregnancy leads to Neonatal abstinence Syndrome (NAS) in the baby –
 - Managed in NICU – may use a scoring scale such as: The Finnegan Neonatal Abstinence Scoring System
 - Treatment may include Morphine, methadone, phenobarbital, Buprenorphine (Butrans)...

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USNews News

HOME OPINION PHOTOS VIDEO BEST COUNTRIES THE REPORT

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 3:41 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

- Synthetic Opioid analgesic (since 1960's)
- Fentanyl is a schedule II substance
- Rapid onset and short duration of action
- Approx 100 x more potent than morphine (DEA)
- **Brand Names:** Actiq, Duragesic, and Sublimaze
- **Street names:**
 - Apache
 - China girl
 - China white
 - Cash
 - Dance fever
 - Friend
 - Goodfella
 - Jackpot
 - Murder 8
 - TNT
 - Tango

<https://www.drugabuse.gov/drugs-abuse/fentanyl>
http://www.deadiversion.usdoj.gov/drug_chem_info/fentanyl.pdf

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Fentanyl - Supplies

Two varieties of Fentanyl Licit vs Illicit

- Licit or prescription: medical grade which is illegally diverted
 - Example: diverted from medical facilities
 - Usually for personal use, or small scale dealing
- Illicit: which is illegally manufactured
 - responsible for the current fentanyl epidemic
 - Non-pharmaceutical fentanyl: produced in clandestine laboratories mostly from china and maybe Mexico
 - Liquid or powder
 - Wide scale sales
 - May be sold as heroin or mixed with heroin
 - Boston found that fentanyl-laced heroin (disguised as heroin) is available in kilogram quantities (DEA)

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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

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Fentanyl

- According to the DEA, most fentanyl analogues in the United States are being manufactured in China and transported through Mexico
- Deadly opioid overdoses becoming news stories nationwide and recently 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

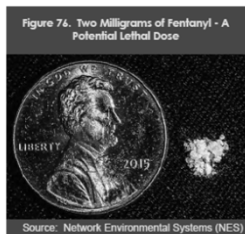


Figure 74. Two Milligrams of Fentanyl - A Potential Lethal Dose

Source: Network Environmental Systems (NES)

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Fentanyl

April 14th, 2016: Fox 32 News: Chicago

- Will County: 53 overdoses and 18 deaths January to April 2016
 - 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

January 03, 2017: Boston herald: Boston

- Grandfather saves 10-month-old baby girl who stopped breathing twice after having been exposed to fentanyl
 - <http://www.bostonherald.com/topic/fentanyl>

July 2016: British Columbia Canada

- 43 people overdosed on fentanyl at a wedding (they actually thought it was crack cocaine)
 - <http://globalnews.ca/news/3266024/b-c-s-chief-health-officer-says-43-people-overdosed-on-fentanyl-at-a-wedding-last-summer/>

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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 4th, 2016: Orlando Sentinel, Orlando, Florida:

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

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Carfentanil

- Carfentanil is used commercially to sedate large animals, known as Elephant tranquilizer
- Carfentanil is the most potent opioid used commercially
- 10,000 times stronger than morphine and 100 times more potent than fentanyl
- It is an analogue of fentanyl
- Produced clandestinely in Mexico and China
- Drug found in Ohio, Indiana, Florida, Georgia, Rhode Island, Pennsylvania, Kentucky, West Virginia and Illinois, New Jersey
- May have been used for assassination attempts and by Russian Special Forces in 2002
- Reports of Heroin laced with Carfentanil throughout the country
- Recently made headlines with its role in the death of pop star Prince
 - Reported by CNN August 25th, 2016
- **September 22nd, 2016:** DEA Issues Carfentanil Warning to Police and Public – concerned for deadly consequences

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The government's struggle to hold opioid manufacturers accountable

Sixty-six percent of all oxycodone sold in Florida came from this company. But the DEA's case against it faltered.

Some brands became so popular among drug users and dealers that they acquired a street name — "M3" for the company's distinctive block-letter logo. (Illustration by Peter and)

By Lenny Bernstein and Scott Higham
April 2, 2017


To combat an escalating opioid epidemic, the Drug Enforcement Administration trained its sights in 2011 on Mallinckrodt Pharmaceuticals, one of the nation's largest manufacturers of the highly addictive generic painkiller oxycodone.

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Drug Use on Welfare

Proposal to drug test welfare applicants returns to Florida

BY JENNY HARRIS/Associated Press
PHOTO: GUY LAWRENCE/REUTERS
RELATED: FL could cut off food stamps to more than 200,000 | Recipients could face tougher sanctions




- Applicants who pass the test will be reimbursed for the cost
- Those who don't would lose benefits for a year (or reapply in six months if they complete a substance abuse program at their expense)
- A similar 2011 law requiring drug screenings for all welfare benefit applicants was declared an unconstitutional search and seizure by a U.S. Supreme Court justice

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Counterfeit Prescription Pills

- Difficult to tell the difference
- counterfeit prescription opioid pills often contain fentanyl
- Counterfeit operations have a pill press to create the have stamp that makes the pill look like a real thing




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"Super pill" Fentanyl laced Xanax

ST. PETERSBURG, Fla: March 21st, 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




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Arizona High Intensity Drug Trafficking Area (HIDTA) INVESTIGATIVE SUPPORT CENTER

Bulletin: Counterfeit Prescription Pills

FIGURE 1



- AZ HIDTA Counterfeit Prescription Pills Bulletin (Feb. 2017)

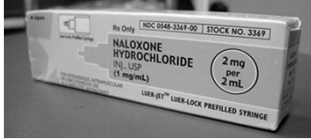
Signs of Overdose

- Opioid OD triad (observed in Heroin and opiates)
 - Unresponsive/Coma
 - Respiratory depression and failure
 - Depression of CNS – Miosis - pin point pupils
- Convulsions (Seizures)
- Hypoxia and Cynosis
- Respiratory depression – Prepare to intubate
- Hypotension
- Bradycardia
- Decreased level of consciousness
- Decreased body temperature

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Treatment of Overdose

- If found in the community: Call 911 - Must go to ER
- Even if Narcan given it has a short 1/2 life compared to many opiates and may need multiple dosing
- Naloxone nasal injection used in the community
- <http://getnaloxonenow.org/>
- DEA recommendation for suspected carfentanil exposure to dose naloxone every 2-3 minutes until the individual is breathing on his/her own for at least 15 minutes or until EMS arrives



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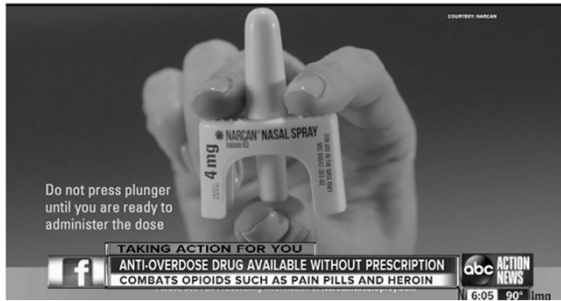
Naloxone

- March 2017: CVS now offers Naloxone without prescriptions across 41 states:
 - Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maryland, Massachusetts, Minnesota, Mississippi, Missouri, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oregon, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia and Wisconsin.
- Walgreens, Rite-Aid and Albertsons pharmacies are expanding naloxone access
- The federal government and pharmaceutical companies have also negotiated in extending the nearly 20% price cut for naloxone

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Overdose reversal drug Narcan now at Florida CVS without prescription

BY: Lauren Rozyla
 POSTED: 3:43 PM, Jul 1, 2016
 UPDATED: 6:20 PM, Jul 1, 2016



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Harm Reduction Vending Machines Are Coming to Ottawa

By McCarton Ackerman 01/20/17

The vending machines may offer new crack pipes and sterile needles.

Vending machines aren't just for candy and soda. Some of these devices in Canada's capital city of Ottawa will soon start carrying harm reduction equipment.

The Ottawa Citizen reported that authorities will introduce these vending machines in five locations throughout the city, providing crucial services for drug users who need clean needles after normal business hours. Although the specific materials in the harm reduction vending machines haven't been confirmed, it's almost a guarantee that crack pipes and clean, sterile needles will be included.



- Clean needles, but no Naloxone. as it was decided that it needed proper overdose response training

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Synthetic Opiates - Trending



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W-18

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

- Synthetic opioid – said to be 10,000 x more powerful than morphine
- Known as synthetic heroin – Street names: “beans” or “shady 80s”
- First invented at the University of Alberta, Canada in 1981 – trying to make a non-addictive painkiller – not well researched – stopped
- A Chinese chemist found it, produced in China - for a cheap high
 - Ship to North America via services such as FedEx
- May not induce a high through the opioid receptors
- Therefore, naloxone may not work
- Some anecdotal success saving lives with Narcan (New England)



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New Synthetic Drug, W-18, Found in South Florida

BY JERRY HANDELL

THURSDAY, MARCH 22, 2016 AT 5:41 A.M.



Northwest Florida and Florida Crime Commission

A On Friday a Miramar drug dealer was sentenced to ten years in prison for importing fentanyl, a powerful surgical painkiller that is sometimes cut into batches of heroin. The drug, which the dealer in question had imported from China, has been tied to scores of deaths in “heroin-heavy” cities like Detroit, Boston, and Newark, as well as cities like West Palm Beach.

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W-18

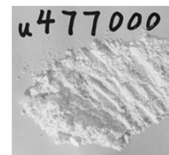
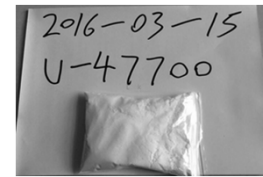
1-(4-Nitrophenylethyl)piperidylidene-2-(4-chlorophenyl)sulfonamide (W-18)

- **Sweden:** W-18 was made illegal in January 2016
- **Canada:** W-18 restricted the drug May 2016
- Canada and Australia currently have significant problems
- **February 24th, 2017:** Health Canada confirm W-18 and fentanyl was laced into drugs seized in Surrey and on Vancouver Island (Canadian Press)
- **April 26th, 2016: New Chanel 10, Tampa Bay FL Reported:** Florida drug dealer convicted of importing fentanyl also had 2.5 pounds of W-18. 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

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U-47700 “Pinky”

- Known as a synthetic opioid
- Scientific names:
 - furanylfentanyl
 - U-47700
- Street Names:
 - Pink
 - Pinky
 - Fu-fen
 - U4
- Created in 1976 as an opioid blend
- 7.5x more potent than morphine supposedly less addictive
- Never tested on humans



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NC officials warn of deadly synthetic drugs ‘Fu-fen’ and ‘U4’

HIGHLIGHTS

Drugs known by the street names “Fu-fen” and “U4” are blamed on 19 deaths in North Carolina this year. The drugs are similar to heroin, but more potent and dangerous.

BY THOMAS McDONALD
tmcdonald@newsobserver.com

RALEIGH — A new batch of synthetic opioid drugs has hit the streets of North Carolina in recent months with deadly consequences, according to state health officials.

The drugs are known by the scientific names furanylfentanyl and U-47700, though some dealers and users call them “Fu-fen” and “U4.” State health officials say the drugs are similar to heroin but more potent and dangerous.

Since the beginning of the year, 19 people have died using the synthetic drugs, state health officials said Thursday in a health alert that warned law enforcement agencies and medical professionals about them.

It's not clear where the drugs are produced, said Alexandra Lefebvre, a spokeswoman with the state Department of Health and Human Services, but the agency's alert says that “the geographic range of deaths attributed to these drugs indicates widespread use and availability across the state.”

Neither of the drugs is available by prescription in the United States.

The emergence of deadly synthetic drugs has caught the attention of public health officials in recent years. In 2013, state health officials warned that acetyl fentanyl, a drug five times more potent than heroin, had killed three people in Person, Sampson and Transylvania counties and sickened another in Cumberland County.

Scientific names:
↓ furanylfentanyl
↓ U-47700

Street names:
↓ Fu-fen
↓ U4
↓ Pink
↓ Pinky

<http://www.newsobserver.com/news/local/crime/article68114222.html>

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Pinky U-47700

- November 15, 2016: DEA News: Temporarily Ban on Synthetic Opioid U-47700
- 46 confirmed deaths—31 in New York and 10 in North Carolina
- The Drug Enforcement Administration said it is aware of confirmed fatalities associated with U-47700 in New Hampshire, North Carolina, Ohio, Texas, and Wisconsin.
- Powder form and as counterfeit tablets that mimic pharmaceutical opioids
- Earlier in 2016 law enforcement in Ohio seized 500 pills resembling a manufacturer's oxycodone immediate-release tablets. However, laboratory analysis confirmed that they contained Pink.

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Home > U47700 Powder

CATEGORIES

- Stimulants
- Cannabinoids
- Sport Pharmacology
- Psychotropics
- Sedatives
- Empathogens
- Benzodiazepine Derivatives
- Opioid
- Dissociatives

COMPARE PRODUCTS
 You have no items to compare.

U47700 Powder

U47700 is an opioid selective research chemical developed by a team at Ligand in the 1970s. U47700 was derived from an earlier opioid anal 7923. U47700 is selective for the μ -opioid receptor, being around 3 to 5 times more potent than morphine.

Availability: In Stock
 Only 223 left
 \$45.00

Normal Name: Methyl 2-(3-(3-(4-((Acetyloxyphenyl)oxy)propyl)phenyl)propyl)acetate-9-carboxylate-10-methanesulfonate

Lot Number: 22249-06-9
 Molecular Formula: C22H29F6O10
 Purity: >99.999%
 Molecular Weight: 583.61
 Delivery Time: 7-14 days

Product code: 1

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Additional Synthetic Opiates

- AH-7921: An opioid analgesic drug
 - 80% the potency of morphine when administered orally
 - It was discovered in the 1970's
 - placed into Schedule I of the Controlled Substances Act on May 16, 2016 and banned or restricted in many countries
- U-77891: An opioid analgesic drug that was first synthesized in 1983

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Kratom

- *Mitragyna speciosa*, the plant commonly known as Kratom,
- Usually comes from Thailand
- Currently five states ban Kratom, but not yet scheduled
- No legitimate medical use
- Some street recommendations and advertisements as an alternative to heroin and Rx opiates



Kratom

- Consumed in various forms including powder, capsule, tablets and liquids and often used as a tea
 - Doses of 2 to 10 grams are recommended
 - Effects occur within 5 to 10 mins
 - Some reports of effects taking many hours start
 - Last for 2 to 5 hours
- Negative side effects include: Nausea, sweating, itching, dry mouth and constipation.
- Long-term use can result in: Anorexia, insomnia, weight loss
- In some cases psychotic episodes, such as confusion, delusions and hallucinations



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Synthetic Cannabinoids (eg: K2, Spice)

New Psychoactive Substances" (NPS) "Legal Highs"



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Cannabinoids

- Receptor - CB₁ – mainly in the brain, CNS. Lungs, liver and kidneys
- Receptor - CB₂ – mainly immune system and hematopoietic cell
- **Tetrahydrocannabinol (THC)** - psychoactive "high" effect (Δ 8THC and Δ 9THC)
 - Mostly associated with Marijuana (flower/bud)
 - Positive effects: analgesic, anti-spasmodic, anti-tremor, anti-inflammatory, appetite stimulant and anti-emetic properties
 - Dab/Wax is an example of a very potent - high level of THC psychoactive compound: up to 80% THC, (range 50-75%)
- **Cannabidiol (CBD)** - medical effects without the "high"
 - CBC is mostly associated with hemp and CBD-rich cannabis plants
 - Positive effects: anti-inflammatory, anti-convulsant, anti-psychotic, anti-oxidant, neuroprotective and immunomodulatory effects
- Synthetic Cannabinoids (like Spice and K2) have no natural THC or CBD. They are synthesized to mimic the psychoactive effects of THC

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Synthetic Cannabinoid

Street Names: Hundreds of brands

- Angry Birds
- Ak-47
- Aroma
- Banana Cream
- Bhang
- Black Mamba
- Bliss
- Bombay Blue
- Cherry bombs
- Cloud 9
- Dr. Feel Good
- Extreme Rush
- Fake weed
- Gangsta
- Genie
- Go Gaine
- Happy Joker
- Herbal 'incense'
- **K2**
- Killa Gorilla
- Mojo
- Moon Rocks
- Mr. Nice Guy
- Ninja
- Nuke
- Outer Space
- Scooby Snax
- Sexy Monkey
- Skunk
- Smacked
- Smoking Santa
- **Spice**
- SpicyXXX,
- Tomcat
- WANTED
- Yucatan
- Zohai

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Synthetic Cannabinoid

- Plant material Sprayed/laced with synthetic cannabinoids
- Chemically similar to THC
- Mimic the Psychoactive ingredients in marijuana (THC)
- Act on cannabinoid receptors CB1 and CB2 throughout the body (just like THC)
- It is not THC so it is generally NOT detectable by usual drug screening methods
- **How it is used:**
 - Most often smoked
 - Sometimes made into Tea
 - Intravenously - rare
- **Why it is used:**
 - Mimic delirious effects of THC
 - Giddiness and euphoria (high)
 - Mimic the effects of Cocaine, Methamphetamines or Cannabis



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Synthetic Cannabinoid

- Commonly purchased in head shops, tobacco shops, gas stations, retail outlets, and the Internet
- **Packaged Not for human consumption**
- Users consider it a "Legal high"
- 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
- Many states have banned substances involved in making it
- However, once banned, the compound is modified to avoid laws



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Synthetic Cannabinoid: Recent Events

- **August 25th:** Austin-Travis County EMS treated 52 patients using K2, 17 additional followed making the total 69 people (no deaths)
- **August 19th:** Los Angeles police suspect a bad batch "spice" sickened 50 people in the Skid Row area and then another 14 on Monday August 22nd
- **July:** Brooklyn, New York 33 people were hospitalized after authorities responded to calls of "K2" overdoses at one intersection
 - the drug was street name AK-47 24 Karat Gold = 85 x as potent as plant-grown marijuana (THC)
- **July 14, 2016:** Synthetic Cannabinoid Advisory New York City - 130 people were taken to emergency rooms in 2 days (from July 11 through July 13) after using synthetic marijuana
- **March:** People high on "spice" look like 'zombies' laying around the park in Clearwater, FL. Also, Spice sickened several dozen people in St. Petersburg, FL over a few weeks in March

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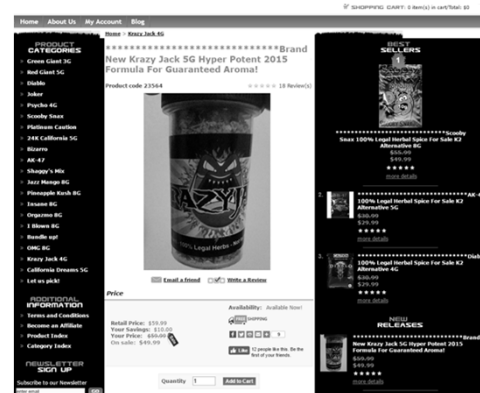
Scooby Snax Herbal Incense

- One of the original most popular herbal incense blends on the market
- Original, Hydro, and flavored
- New 2nd Generation
- Available for next day shipping
- \$20.99 for 4 grams (16.99 for original)
- \$37.99 for 10 grams – 2nd generation



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Example of what is so easy to find on the internet



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Side Effects

- Tachycardia and Hypertension
- ECG changes (including ST elevation, T wave changes and QTc prolongation)
- Arrhythmias and BBB
- Palpitations
- Chest pain
- High doses = bradycardia and hypotension = Cardiac hypoperfusion
- Decreased Coronary pressure and myocardial ischemia
- Cardiotoxicity
- Hypokalaemia
- Dyspnea
- Diaphoresis
- Appetite changes, Nausea and Vomiting
- Hypertonia
- Muscle spasms
- Tremors and seizures
- Acute kidney injury and Renal dysfunction

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Side Effects

- Changes in neurological status
- Decreased responsiveness
- Acute cerebral ischemia
- Agitation, irritability, drowsiness, confusion
- Anxiety and panic attacks
- Changes in perception
- Intense hallucinations, delusions
- Paranoia and psychosis
- Psychotic episodes, and suicidal fixations
- It appears to be stored in the body for long periods of time, and therefore the long-term effects are not fully known



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Psychotic Events from Cannabis vs Synthetic Cannabinoid

- Cannabis use is associated with an increased risk of psychosis and schizophrenia because of the tetrahydrocannabinol (THC)
- Cannabis high in cannabidiol (CBD) has fewer psychotic experiences
- Synthetic cannabinoid receptor agonists (SCRAs) are full agonists
- They are more potent than natural THC and contain no CBD
- Therefore, cause more frequent and more severe unwanted negative effects, especially in younger, inexperienced users
- Psychosis seem to occur relatively often with synthetic cannabinoids, presumably due to their high potency and the absence of CBD

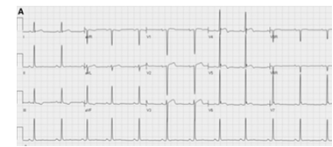
(van Amsterdam, J., Brunt, T., & van den Brink, W., 2015)

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Cardiac Events

3 pediatric cases of K2 exposure, age 15, 16 and 17yrs in Washington DC

- Denied CP or symptoms
- ST Elevation on ECG
- Initial elevated troponin
- ECHO normal
- UDS negative
- Monitored and discharged
- ECG changes resolved and troponins normalized within 24 hours
- Long-term consequences of K2 and myocardial ischemia are unknown
- Lack of specific cardiac symptoms should not deter healthcare providers from obtaining an ECG and possibly cardiac enzyme tests



(Clark, B. C., Georgekutty, J., & Berul, C. I., 2015)

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Treatment

There is no specific antidote for intoxication with synthetic cannabinoids

- Supportive care
- Fluids
- Monitor closely and be prepared to resuscitate
- Maybe consider lipids – a small study in Turkey had success in recovering (cardio and neuro effects) in 3 out of 4 patients
 - Lipid-sink-theory - Drugs that are free in the intravascular space are thought to be trapped within the intravenous lipid emulsion and this reduces the concentration
 - Unstable patients presenting to ED with acute synthetic cannabinoid intoxication may be candidates for intravenous lipid emulsion treatment
 - (Aksel, G., Güneysel, Ö., Taşyürek, T., Kozan, E., & Çevik, Ş. E. 2015)



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MDMA - Lets Talk X






MDMA (Ecstasy)

MDMA Continues to Trend - So many research chemicals try to reproduce the effects of MDMA for the euphoria and psychoactive effects

Street terms:

- **Ecstasy (pill)**
- **Molly (powder)**
- **E**, Love, MDMA or MDA, **X**, XTC,
- Real Name: 3,4 Methylendioxyamphetamin, (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 - no 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

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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 used with alcohol and/or 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

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Molly - MDMA

- Molly—slang for "molecular"
- Thought to contain "Pure" MDMA
- Pure crystalline powder, or can be powder capsules - capsules for \$8 to \$40 per pill depending on location
- Also available as Mollywatr (glow-in-the-dark container)
 - Usually high priced and exclusive
- Molly had a surge in interest in the past few years, being celebrated frequently by actors and musicians
- "**Molly**" = street term also used to describe some "Bath salts" such as Methylo: (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

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MDMA (Ecstasy)




<p>Uses (why people use)</p> <ul style="list-style-type: none"> ● Produces energy and euphoria ● Suppresses need to eat, drink, or sleep ● Enables user to endure all-night or 2-3 day parties ● Eliminates anxiety ● Increases talkativeness and giggling ● Reduces inhibitions ● Produces feelings of empathy/affection for others ● Enjoying touching ● Enjoying being touched ● Making it a Rape Drug 	<p>Side Effects</p> <ul style="list-style-type: none"> ● Dilated pupils, blurred vision ● Nausea, Faintness ● Dry mouth, Dehydration ● Chills/Sweating ● Tachycardia/Hypertension ● Overheated - ↑ core temp ● Hyperthermia 107-109°F ● Loss of consciousness ● Confusion & Panic attacks ● Jaw & Muscle tension/cramps ● Seizures ● Hepatic/Renal failure & Death
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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.



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Testing the Purity of Molly

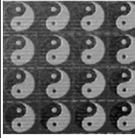
- The bunk police risk prison to bring drug testing kits to music festivals
- Testing for impurities
 - Featured November 4 2015
 - Lisa Ling's CNN Report about designer drugs at music festivals
 - EDM Festival "Mysterland"
 - Electronic Dance Music
 - Risk: Dehydration, over heat, death






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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)



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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 unpredictable
- Occur spontaneously
- Vary in frequency and duration
- May occur days up to months after use
- Increase occurrence during times of stress



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Management of overdose for 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

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Bath-salts and Legal Highs

New Psychoactive Substances (NPS)



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Cathinones – Natural vs Synthetic

Natural Cathinone

Khat (Quat, Cot, Tea)

- Natural Cathinone
- Grows in East Africa and in southern Arabia
- DEA reports that 10 million people worldwide chew khat
- Cultural, usually males
- Hallucinogenic: Excitement, Euphoria, Hyper-manic states, Hyperactivity, talkative, paranoia, delusions of grandeur



Synthetic Cathinone

"Bath salts" (group name)

- Like Amphetamines, they stimulate the CNS and have sympathomimetic features
- Emerged as legal alternatives to amphetamine, ecstasy, or cocaine known as 'legal highs'
- (Valentine et al, 2013)



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- Mostly sold on the Internet
- Also head shops, novelty stores, convenience stores, and gas stations
- Usually marketed with the warning **"Not intended for human consumption."**
- Marketed as "bath salts" to evade detection (Not to confuse with bath products or Epsom salts)
- Users want to get high without engaging in criminal activity
- Originally synthesized in the 1920s
- Recreational in UK & Europe 2009, USA in 2010
- **MDPV: Bath salts**
- **Alpha PVP – Flakka**
- **Mephedrone: Meow-Meow**
- **Methylone: bk-MDMA** Not to be confused MDMA = Ecstasy
- **Ethylone and Butylone**

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Synthetic Cathinones (General)

Stimulant effects similar to cocaine, amphetamines, Khat, LSD, and MDMA
Increases dopamine, serotonin, and norepinephrine in synapses

Duration: 4 to 8 hours – depending on substance/route

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

User Reports: Highly addictive with intense cravings

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FSU Student Ate Victims Face

● **Monday August 15th**

● The Martin County Sheriff's Office

● 19 year old FSU Student accused of murdering a married couple and biting off one of the victim's faces



● A neighbor initially intervened but was allegedly stabbed

● Unprovoked and random attack on two victims who were standing in their garage

● **Possible use of bath salts, maybe Flakka**

● Detectives said: he had enormous strength and was shouting incoherent things

● It took a K9, a taser and three deputies to reign him in away from the victims

Most Common Bath salts

- **MDPV** (Bath salts, Ivory Wave, plant food....)
- **Alpha PVP** (Flakka, gravel)
 - MDPV and α -PVP Both are very potent and selective inhibitors of dopamine and noradrenaline transporters - 10x more potent than cocaine or methamphetamine with a 3-4 hour duration
- **Mephedrone:** (Meow-Meow, M-cat, Mad Cow)
 - Desired Effects similar to MDMA (ecstasy, X)
- **Methylone:** (room odorizer" or "Explosion)
 - **bk-MDMA** Not to be confused MDMA = Ecstasy
 - Mephedrone mixed with methylone = bubbles
- **Ethylone and Butylone**
 - Desired effects for all three drug groups is to be similar to MDMA

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Effects of Bath salts

- Users are usually looking for euphoria, sexual energy and drive and increased sociability

Side effects

- Psychosis, agitation, combative behavior,
- Delusions and paranoia and prolonged insomnia
- Sympathomimetic toxidrome: typically includes hypertension, tachycardia, mydriasis, agitation, and sweating
- Chest pain
- **Deadly effect: Hyperthermia 105-106 f**
- Leading to kidney failure, and rhabdomyolysis

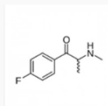
Withdrawal Symptoms

- Depression
- Anxiety
- Tremors
- Problems sleeping
- Paranoia

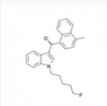
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Possible Treatments for Cathinone

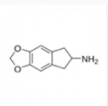
Adverse Events	Treatments
Psychosis, agitation, anxiety	Benzodiazepines are first line treatment, then antipsychotics. Haloperidol without benzodiazepines is generally not recommended because seizure and dysrhythmia thresholds are lowered and negative drug induced psychological effects including anxiety may increase – it may also worsen hyperthermia
Hyperthermia	Physical cooling, and relaxation with benzodiazepines. Antipyretics may not be effective
Tachycardia	Negative chronotropic agents
Hypertension	Antihypertensives: primarily with nitrates. β -blockers should be avoided because of unopposed α -adrenergic stimulation resulting in further increases in blood pressure
Chest pain	Monitor cardiac enzymes and ECG
MI	Standard treatments for MI (MDPV: avoid or use caution with beta-blockers), benzodiazepines
Hyponatremia	Monitor serum sodium. Fluid restriction and hypertonic saline
Manganism	Elevated serum or urinary manganese. Information taken from White, 2016, and Lichti 2016 Monitor manganese concentrations. Chelation therapy, Parkinson's medications



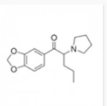
3g Mephedrone
45.00\$
[Add to cart](#)



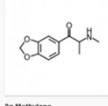
3g BAM-2201
46.00\$
[Add to cart](#)



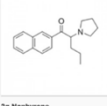
3g MDAI
60.00\$
[Add to cart](#)



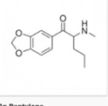
3g MDPV
45.00\$
[Add to cart](#)



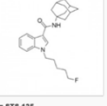
3g Methylone
50.00\$
[Add to cart](#)



3g Mephedrone
30.00\$
[Add to cart](#)



3g Pentylone
36.00\$
[Add to cart](#)



3g STS-135
30.00\$
[Add to cart](#)

High Purity Research Chemicals, Straight to your mailbox in USA from China

100 % Success delivery , in Stealth packaging

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

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

Location: 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
- Mephedrone
- 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.

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

General Chemicals and New Psychoactive Substances (NPSs)

- New Psychoactive Substances (NPS)
- May be referred to by their chemical names or a brand name
- 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 similar to the effects of **Mescaline**
 - **Eg: Bromo DragonFly (B-Fly) Ethylone and Butylone**
 - **Tryptamine** hallucinogens are similar to **LSD**
 - **EG: N-Bomb (Smiles), DT, 2C-B (Smiles)**

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Bromo DragonFly

More Street Term: B-Fly, Fly or 2C-B-fly

Nexus, 2's, Toonies, Bromo, Spectrum, Venu

- **Chemical:** 4-Bromo-2,5dimethoxyphenethylamine
- Psychedelic drug – Related to phenethylamine (Mescaline) family
- Extremely potent hallucinogen
- Psychedelic effects that last 6–8 hours, or up to 12 hours in larger doses. Sometimes up to 3 days
- USA: Schedule I control substance
- Drug of choice for club drug in Colombia
 - Vasoconstriction: extremity tissue necrosis
 - Seizures,
 - Respiratory distress
 - Hepatic and renal failure

AMERICA'S NEW DEADLY LEGAL DRUG: DRAGONFLY



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N-bomb

N-Bomb: Smiles, 25I, 25C, 25B and "legal acid"

- Chemical: 25I-NBOMe, 25C-NBOMe, and 25B-NBOMe
- Almost exclusively Made in China – marketed as "LSD safe alternative"
 - Sublingual/Buccal last 6–10 hours
 - Last 4–6 hours when inhaled
 - Duration up to 12 hours
- Small amounts can cause:
 - Seizures, MI, Cardiac or Respiratory Arrest and death
 - Deaths are recorded in USA
- Prices: \$10-15 per hit
- Bulk: 100mg=\$100, 250mg=\$225, 500mg=\$400, 1000mg=\$750
- The LSD analog 25I-NBOMe was the most common hallucinogen detected as part of our 4-year surveillance program in Arkansas



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Severe clinical toxicity associated with analytically confirmed recreational use of 25I-NBOMe: case series

- **Study:** Seven patients, all young adult males, presented to hospitals in the northeast of England with clinical toxicity after recreational drug use of 25I-NBOMe in January 2013
- **Side effects:** tachycardia (n = 7), hypertension (4), agitation (6), aggression, visual and auditory hallucinations (6), seizures (3), hyperpyrexia (3), clonus (2), elevated white cell count (2), elevated creatine kinase (7), metabolic acidosis (3), and acute kidney injury (1).

• Hill et al, 2013

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Diagnosis and Treatments

- Diagnosis mostly based on history and presenting behavior
- Routine drug screens do not detect bath salt compounds
- Some commercial kits are sold, but rarely available at the bedside
- Management mostly supportive
 - Aggressive IV hydration
 - Benzodiazepines
 - May assist in dampen excessive sympathetic outflow
 - Close monitoring in the ICU setting
 - **Treat Hyperthermia** - use cold water, fans, cooling blankets, and anti-pyretics (Tylenol)

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Smoking Alcohol

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



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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



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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



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1,3,7-trimethylxanthine

- Legal Highs - 1,3,7-trimethylxanthine - which is caffeine
 - Smiley Face (powder) is pure caffeine
 - Snow Blow (powder) and Blowout (powder)
 - caffeine mixed with taurine and vitamin B
 - POW (powder)
 - caffeine with the black pepper extract bioperine
 - Bosh (2 pill pack) or Jester (2 pill pack)
 - Both are caffeine, guarana and cola nut extract mixed in big red capsules
- For more information on the effects this blogger had, visit the website: https://www.vice.com/en_ca/article/i-tried-every-legal-high-left-on-the-market



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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

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E-Cigarettes and THC Biggest trends upward in teenage use

Posted: 11:08 a.m. Thursday, Jan. 9, 2014

CHP: Teens converting e-cigarettes to use THC oil

View Large | By Noelle Walker KTVU.com

RICHMOND, 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 told KTVU the department uses social media and YouTube to keep up with rapidly changing drug trends.

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

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

The Patient ID Center in Oakland caters to medical marijuana



Pot Smoke And Mirrors: Vaporizer Pens Hide Marijuana Use



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Do You Drip?

- February 7th, 2017
- NIH Published research on Dipping in teens
- "dripping" is a practice in which users placing drops of e-liquids directly onto heated atomizer coils
- Study finds one in four high school e-cigarette users have tried "dripping"
- Produce thicker clouds of vapor (63.5%), improve flavors (38.7%), and produce a stronger throat hit (27.7%)
- Concern: Increase nicotine, toxins, and carcinogens
- National Institute on Drug Abuse and the FDA Center for Tobacco Products.

"E-Cigarettes and "Dripping" Among High-School Youth"— published in Pediatrics, go to: <http://pediatrics.aappublications.org/content/early/2017/02/02/peds.2016-3224>

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Do You Dab?

THC – Wax/Dab - "dabbing"

- Potent - high level of THC (range 50-80%)
 - Marijuana joint averages 20%
- Marijuana is soaked in a solvent such as butane which extracts the cannabinoids
- Produced into : Viscous oil, hardened waxy substance, or brittle/glassy pieces
- Smoked, water pipe, vaped, E-cigarette, Edibles/ Drinks

Side Effects:

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



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Summary of Management for Intoxication of Synthetics

- Get as much of the story as you can from the patient or friends
- Treat as a Medical Emergency, monitor closely and prepare for the worst
 - **Stabilize (ABC's), Oxygen, Monitor, 2 IV's**
 - **Code Cart –May need defibrillator**
 - **Prepare to intubate**
- No specific antidote is known for most synthetics
- 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

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Drug Paraphernalia



● 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

Squeeze bottle filled with GHB.

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Gas mask converted to drug pipe.



Lipstick dispenser hides drug pipe.



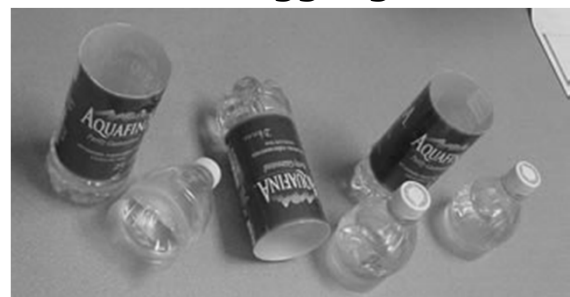
Felt tip marker with internal drug pipe.



Assorted collection of drug pipes.

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Smuggling

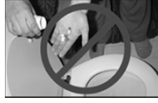


Smuggling Trick: Using plastic water bottles with a hidden compartment for drugs.

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DEA News: Prescription Drug Take-Back Effort

- DEA National Take Back Initiative –
 - National drug take back days twice a year
 - Collection sites listed at:
http://www.deadiversion.usdoj.gov/drug_disposal/takeback/index.html
- October 2016: Walgreens collected >10 tons of unused medications as it reaches its goal or installing safe medication disposal kiosks in more than 500 pharmacies throughout the US



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- Questions?
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