

# DRUG AWARENESS MARSHALL COUNTY 2015

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&  
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Mid Iowa Drug Task Force – 641-754-6392

# WHAT IS MIDTF

- Mid Iowa Drug Task Force – 9 agencies
- Marshall, Tama, Hardin, Grundy
- Work with DEA, FBI, ATF, ICE, US Marshalls, IRS
- Concerned citizen complaints
- Educate public
- Pretty much ninjas.



# OBJECTIVES

- ① **Show local drug trends.**
- ② **Be able to identify paraphernalia associated with drug use.**
- ③ **Identify various equipment and chemicals used in the manufacturing of methamphetamine and BHO extraction.**
- ④ **Be able to properly handle illegal drug manufacturing waste.**
- ⑤ **Create general drug awareness.**

# **TRENDING IN IOWA: DRUG USE AT A GLANCE – AUG. 2015**

- **13<sup>th</sup> lowest rate of illicit drug use & 14<sup>th</sup> lowest rate of Rx abuse in US.**
- **Youth substance abuse declined steadily over last decade.**
- **Meth labs down 88% vs. peak of ten years ago (174 vs. 1,500)**
- **Meth use treatment 11<sup>th</sup> highest in US.**
- **Underage & binge drinking exceed national average**
- **OD deaths from Rx at all time highs. Fastest growing form of substance abuse.**
- **Marijuana “concentrates” on the rise.**
- **Synthetic drugs are new & changing threat.**

# **IOWA DRUG-RELATED TRAFFIC FATALITIES - # KILLED IN 2013 WHO TESTED POSITIVE FOR ILLICIT DRUGS**

**20 – Marijuana**

**10 – Prescription**

**8 – Meth**

**2 – Cocaine**

**94 – Alcohol**

**21 had drugs & alcohol in system**

**19 were solely drug-related**

**IDOT,2013**

# Marijuana!



HEY, AT LEAST IT'S NOT CRACK!

# MARIJUANA

Marijuana is a green, brown, or gray mixture of dried, shredded leaves, stems, seeds, and flowers of the hemp plant (*Cannabis sativa*). Cannabis is a term that refers to marijuana and other drugs made from the same plant.



# MARIJUANA - HOW IS IT COMMONLY USED

- Roll loose marijuana into a cigarette (called a joint)
- Smoke it in a pipe or a water pipe, sometimes referred to as a bong.
- Mix marijuana into foods, or use it to brew a tea.
- Slice open a cigar and replace the tobacco with marijuana, creating what is known as a blunt.
- THC oil used in vaporizers.

[\\*Water Bong Video\\*](#)

# MARIJUANA

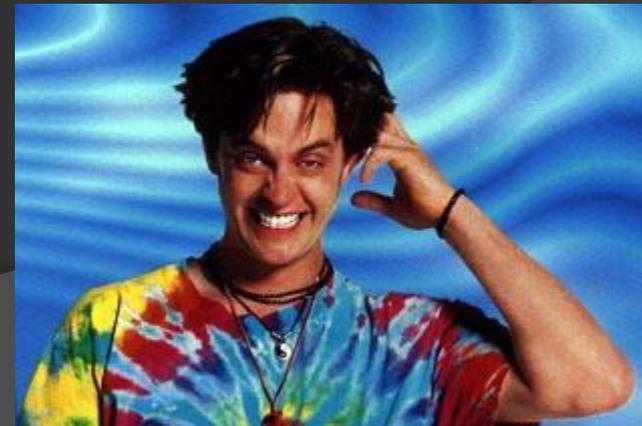
## SHORT TERM EFFECTS

- ⦿ Sensory distortion
- ⦿ Panic
- ⦿ Anxiety
- ⦿ Poor coordination of movement
- ⦿ Lowered reaction time
- ⦿ After an initial “up,” the user feels sleepy or depressed
- ⦿ Increased heartbeat (and risk of heart attack)



# MARIJUANA – LONG TERM

- Reduced resistance to common illnesses (colds, bronchitis, etc.)
- Suppression of the immune system
- Amotivational syndrome
- Constant cough
- Rapid destruction of lung fibers and lesions (injuries) to the brain could be permanent
- Reduced sexual capacity
- Study difficulties: reduced ability to learn and retain information
- Apathy, drowsiness, lack of motivation
- Personality and mood changes
- Inability to understand things clearly



# MARIJUANA PARAPHERNALIA CONTINUED



# MARIJUANA PARAPHERNALIA AND INDICATORS





# MARIJUANA

## EMS CONCERNS

- Smoking marijuana gives the user a dose of roughly 5mg, although this depends greatly on the concentration of THC in the marijuana and how it's smoked. The THC content in a marijuana edible can be up to 100mg.
- ER patients reported severe nausea and vomiting, anxiety, elevated heart, respiratory and blood pressure rates.
- The reaction resembles someone who is having a severe anxiety attack and often patients are worried they're having a stroke or a heart attack. Some fear they are going to die. Treatment with anti-anxiety and anti-nausea medications can be very helpful.
- In 2011 over 455,000 ER visits due to marijuana ingestion/exposure. Over 13% ages 12-17
- **\*Accidental Ingestion\***



# MARIJUANA IN OUR AREA?

**UMM...YES!**

- ◉ With the legalization in states like Colorado there has been an influx of Marijuana trafficking into states like Iowa.
- ◉ Mexican marijuana is still around but does not seem to be as prevalent.



# IOWA MARIJUANA FACTS

- 949 Marijuana related ER visits in 2013 compared to 455 in 2006.
- 46% of Marijuana seized on Iowa Highways from Colorado. Rest from CA, OR, AZ, WA.
- Perceived risk is down among teenagers
- THC levels are on the rise. 11.8% of all seized had THC in excess of 80% in 2014 vs 3.75% in 1995

# THC OIL – HASH OIL



- **“THC Oil” is a highly potent form of marijuana which has an increased risk of severe impairment, and its production carries a high risk of fire or explosion.**
- **THC Oil may contain 80 percent or more tetrahydrocannabinol (THC) compared to the plant form, which contains 20 to 30 percent THC.**
- **Street Names - “butane hash oil,” “dabs,” “budder,” “shatter,” “ear wax hash,” or “honey oil.”**
- **It is a form of concentrated marijuana, which most commonly appears as a sticky paste, taffy, or large glass-like flakes and it can easily be infused into other products for alternate consumption.**

# CONSUMPTION OF HASH OIL

Usually consumed by smoking, eating or vaporizing

## Smoking

- Placed on pipe by itself
- Used to lace other drugs

## Eating

- Combined with sugar or sweeteners and flavorings to make hard candy.

## Vaporizing

- “Dabs” are placed on super heated ceramic bowls
- Nearly 100% consumption with little residue





**DEA**



azmarijuana.com



Discovery Source: For personal use only. This source is not intended to be a medical advice. It is for informational purposes only. Contact information: Mountain High Suckers - 2000 S. Maricopa Parkway, Unit #B, Phoenix, AZ 85024 (602) 723-4294. Keep out of reach of children.

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Ganja Gourmet  
www.Ganja-Gourmet.com

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www.Ganja-Gourmet.com

**MARIJUANA OIL EXAMPLES**

# THC OIL MANUFACTURING

## Methods of extraction:

- **Solvent Reduced:** Made by soaking plant material for length of time in chemicals such as acetone or alcohol based solvent.
- **Butane Hash Oil (BHO):** Made by passing butane gas through container filled with cannabis.
- **CO2 in tank under pressure:** Same as butane, but co2 is colder and faster

# B.H.O. MANUFACTURING

The most common form of Hash Oil is “Butane Hash Oil” or “BHO”

- Made by passing butane gas through a tube or “extractor” filled with Cannabis plant matter.
- Liquid butane runs through plant matter and crystallized resins are trapped in the liquid butane.
- As the solvent (butane + resins) exits the tube it is caught in a glass container.

[\\*Hash Oil How To Video\\*](#)



# AMOUNT OF OIL PRODUCED

- Five pounds of marijuana equals 120-140 grams of BHO. Value of around \$3500 for 140grams
- One gram sells for anywhere from \$25 to \$45. Depending on strain of plant and type of extraction.



# Woody OG Honey Bud



# HASH OIL – SAFETY CONCERNS

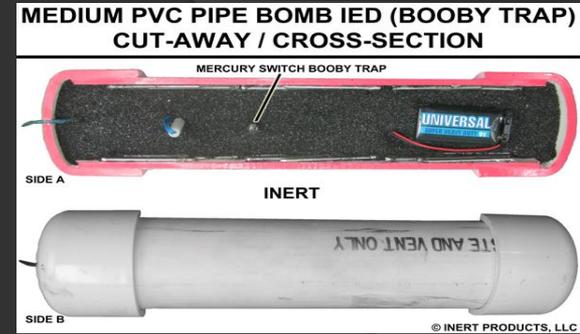
- Higher THC levels
- The process to make is dangerous



- [Colorado News Report](#)
- [Explosion Videos](#)

# B.H.O. – HAZARDS

- Butane is odorless, colorless, and heavier than air
- It will seep into low lying areas. If the fire starts on an upper floor, crews need to be aware of possible gas on lower floors
- Butane canisters are pressurized and compressed highly flammable gas.
- Similar in appearance to pipe bomb. Don't assume!
- Scenes may have hundreds of cans!



# THC OIL – HASH OIL

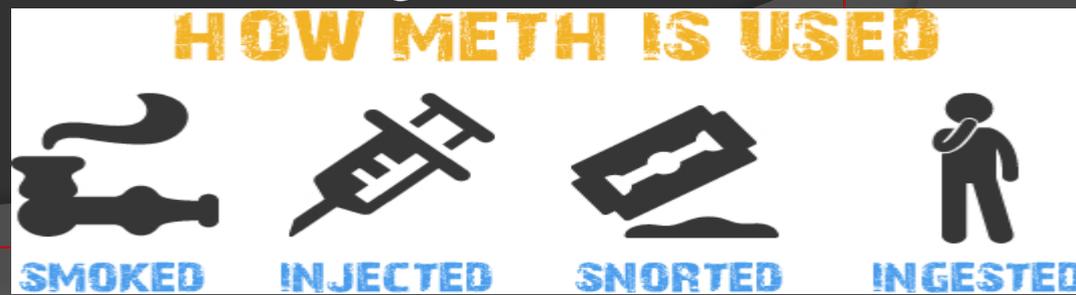


Blue Dream Hash Oil  
@ mjBud.com

# METHAMPHETAMINE



- Methamphetamine (also called meth, crystal, chalk, and ice, among other terms) is an extremely addictive stimulant drug that is chemically similar to amphetamine. It takes the form of a white, odorless, bitter-tasting crystalline powder.
- Methamphetamine taken orally, smoked, snorted, or injected. Smoking or injecting the drug delivers it very quickly to the brain.
- Because the pleasure also fades quickly, users often take repeated doses, in a “binge and crash” pattern.



# METH CONTINUED

- **Highly Addictive – One use can get an individual addicted. Methamphetamine increases the amount of the neurotransmitter dopamine, leading to high levels of that chemical in the brain. Dopamine is involved in reward, motivation, the experience of pleasure, and motor function. Methamphetamine’s ability to release dopamine rapidly in reward regions of the brain produces the euphoric “rush” or “flash” that many users experience.**

[meth video](#)

# IOWA METH FACTS

- Iowa meth purities on rise. Average purity in 2014 93% vs. 35% in 2008.
- 7,196 meth treatment admissions in 2014 vs. 4,000 in 2000.
- 1,172 confirmed cases of illegal drugs in children 2013 vs. 650 in 2001.

# METHAMPHETAMINE APPEARANCES



# METH EFFECTS



- Hair- Toxic chemicals in Meth combined with malnutrition and a user's obsessive plucking can cause hair to fall out.
- Meth-induced psychosis causes users to see, hear, or even feel things that aren't really there.
- Using Meth can lead to rotting teeth and gums from poor hygiene, bacteria, grinding, and the acidity of the drug.
- Meth raises the body temp to dangerous levels, which can lead to a rise in heart and respiratory rates, as well as organ failure and brain damage. Extended use can result in irregular heartbeat, heart attack, or stroke.



# METH EFFECTS CONT'

- ◉ Meth suppresses the appetite and can cause users to become extremely thin and frail, losing muscle tissue and bone density.
- ◉ Meth restricts the skins blood flow and its healing process, resulting in graying skin, acne, and open sores.
- ◉ Meth can cause involuntary muscle contractions, uncontrollable twitching and strange movements like facial tics.



# METH



**BEFORE**

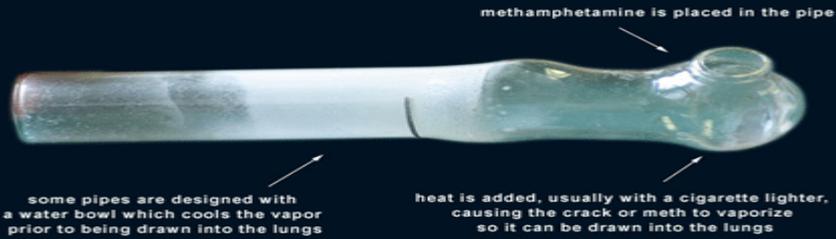


**AFTER**

# METH PARAPHERNALIA



## Meth Pipe



methamphetamine is placed in the pipe

some pipes are designed with a water bowl which cools the vapor prior to being drawn into the lungs

heat is added, usually with a cigarette lighter, causing the crack or meth to vaporize so it can be drawn into the lungs



# HEALTH CONCERNS

- HIV, AIDS, Hepatitis
- Agitation, Violence
- “Super Strength”
- Exposure to Chemicals
- Fires
- Unsanitary conditions
- Children



# METH

## WHERE IS IT COMING FROM

- Clandestine Labs
- Shake & Bake
- One Pot
- Red Phosphorus
- Decreasing???

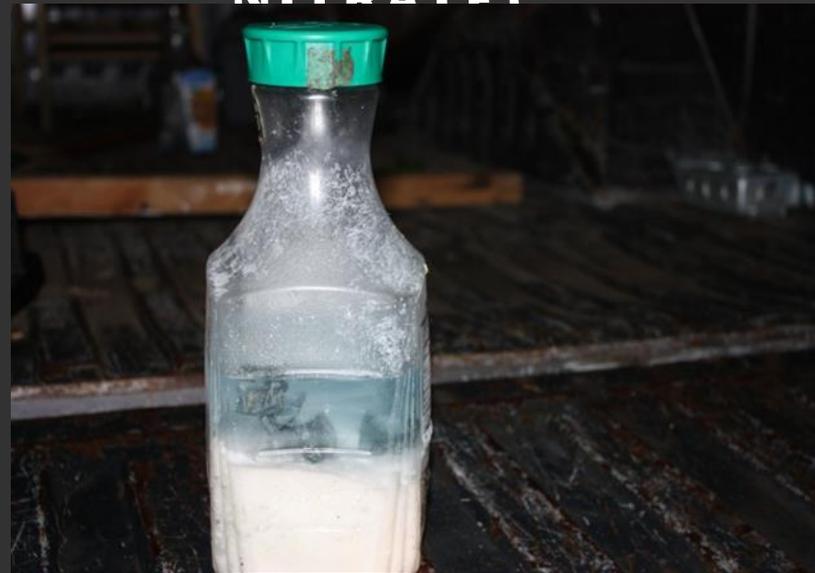


# DIFFERENT TYPES OF SHAKE AND BAKE LABS

## TREE SPIKE (AMMONIUM SULFATE)



## COLD PACK (AMMONIUM NITRATE)



# METH LAB WASTE PHOTOS

Making meth via one pot method is fast and relatively easy

Labs will often have multiple cooks “rolling” and many discarded vessels



# METH LAB WASTE PHOTOS



# METH LAB WASTE PHOTOS



# METH LAB WASTE PHOTOS



# ACTIVE ONE POT COOKS

- ◉ Leave it alone!!!!
- ◉ NEVER move an active cook (most dangerous part of the cook)
- ◉ Many agencies are opening the vessel to reduce the pressure and likelihood of a vessel failure
- ◉ IF you open the vessel: SLOW and careful
- ◉ Once vessel is open, leave it open!
- ◉ Keep the reaction vessel away from other solvents



# **COMMON CHEMICALS USED TO MAKE METHAMPHETAMINE:**

**Methanol/Alcohol (gasoline additives)**

**Muriatic Acid**

**Anhydrous Ammonia (farm fertilizer)**

**Sodium Hydroxide (lye)**

**Pseudoephedrine (cold tablets)**

**Iodine (teat dip or flakes/crystal)**

**Lithium (batteries)**

**Trichloroethane (gun scrubber)**

**Alcohol (Isopropyl or rubbing alcohol)**

**Toluene (brake cleaner)**

**Ether (engine starter)**

**Sulfuric Acid (drain cleaner)**

**Red Phosphorus (matches/road flares)**

**Salt (table/rock)**

**MSM (cutting agent)**

**Sodium Metal**

# METH LAB EQUIPMENT

- Pyrex/Glassware
- Jugs-Bottles
- Coffee Filters
- Thermometer
- Cheesecloth
- Funnels
- Blenders
- Rubber tubing/gloves
- Coolers/Buckets
- Gas cans
- Tape/clamps
- Internet Documents
- How to literature
- Aluminum foil
- Propane cylinders
- Hot plates
- Lab equipment/beaker

# ACTIVE ONE POT COOKS

- Reaction should come to a stop on it's own
- Might be prudent to wait for reaction to cease prior to processing
- Be extremely cognizant of unspent lithium
- Video



# FOCUS ON LITHIUM

- ⦿ Lithium + water = bad day
- ⦿ Solvent less dense than water so solvent is the top layer in the cook vessel
- ⦿ Lithium less dense than solvent so floats on top (of the top layer)
- ⦿ When undisturbed, the lithium and water don't mix....except for the "roll"

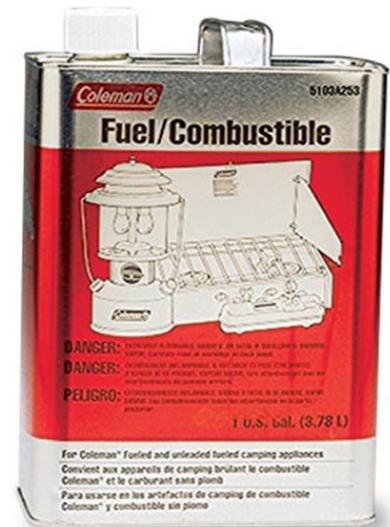
# SHAKE AND BAKE FIRES

- Lithium reacts with water (incorrect ratio in the vessel)
- Causes a spark or small burn
- Serves as ignition source for solvent
- Vessel fails in stages and “shoots” flames
- Acts as homemade flamethrower
- Surroundings fully engulfed in matter of minutes

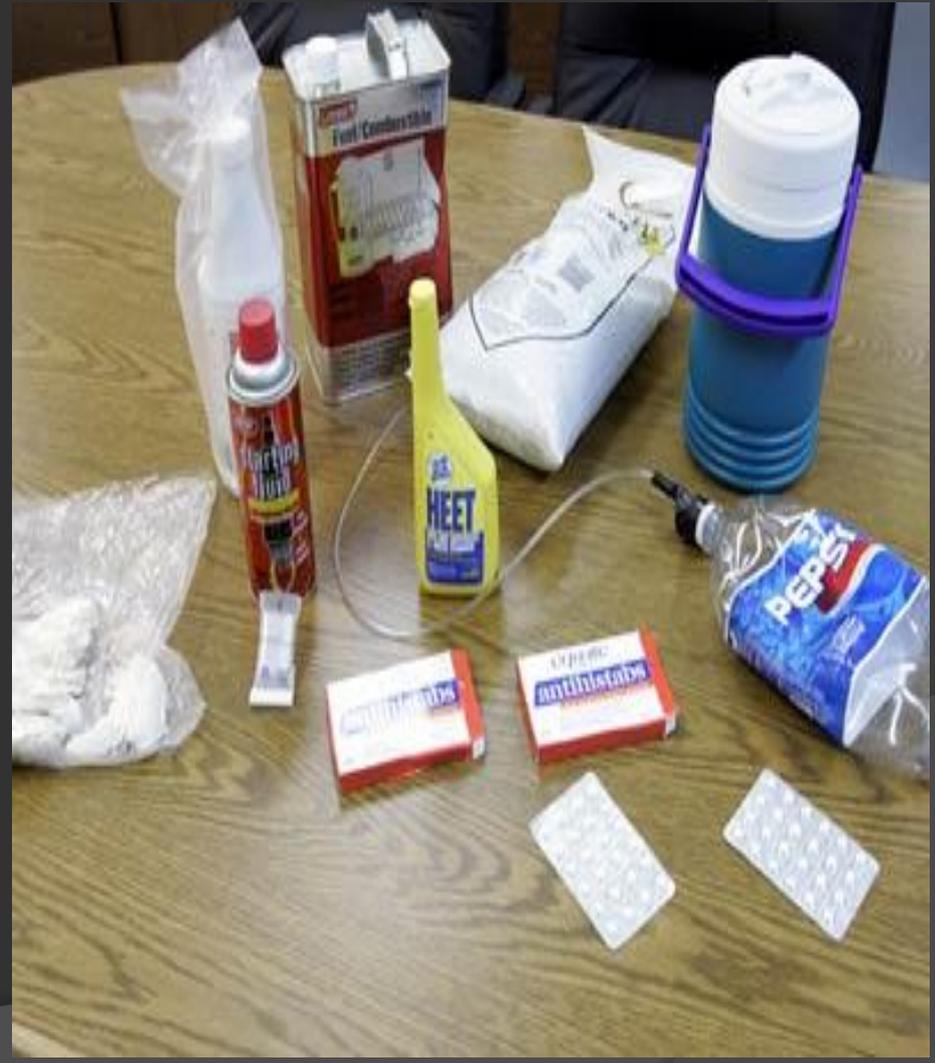
# METH LAB BOO BOOS



# ORDINARY HOUSEHOLD ITEMS



# ORDINARY HOUSEHOLD ITEMS



# IF NOT ONE POTS THEN WHERE?



- MEXICO
- Super Labs
- Thousands of pounds a day
- Less risk for the customer
- Just as pure - 80-99%



# IS THE CARTEL IN OUR AREA?

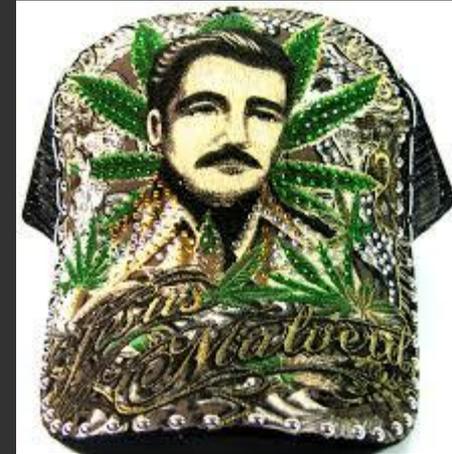


## AREAS OF CARTEL INFLUENCE IN MEXICO



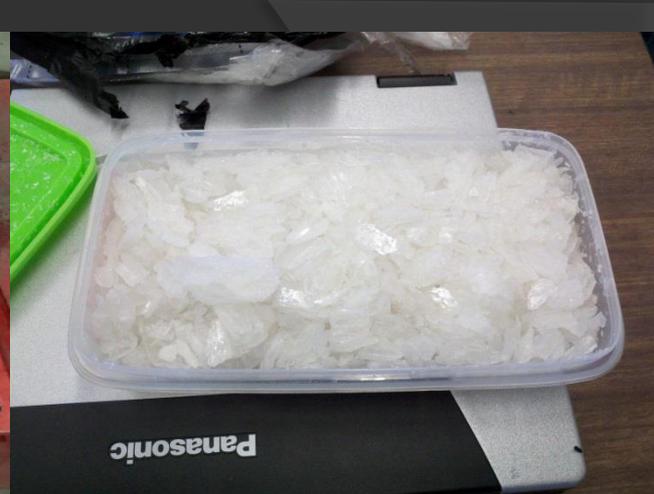
# INDICATORS IN HOMES

- Shrines
- Clothing



More than 60,000 people have been killed from Cartel violence between 2006 to 2012, according to Human Rights Watch.





# HEROIN



- Heroin (like opium and morphine) is made from the resin of poppy plants. Milky, sap-like opium is first removed from the pod of the poppy flower. This opium is refined to make morphine, then further refined into different forms of heroin.
- Heroin can be injected, smoked or sniffed. The first time it is used, the drug creates a sensation of being high.
- Heroin is highly addictive and withdrawal extremely painful. The drug quickly breaks down the immune system, finally leaving one sickly, extremely thin and bony and, ultimately, dead.

# HEROIN & IOWA FACTS

- 2920gms (6.4lbs) heroin seized in 2014 by DNE vs. mere grams in 2009. Street value in Mtown = \$1,168,000.
- 20 heroin overdose deaths in 2013 vs. 1 in 2002.
- Seeing higher demand as prescription opiate addiction rises. College towns more prevalent \$\$\$



# STREET NAMES

- **Big H**
- **Brown Sugar**
- **H**
- **Hell Dust**
- **Horse**
- **Junk**
- **Nose Drops**
- **Skag**
- **Smack**
- **Thunder**



# HEROIN SIDE EFFECTS

## SHORT TERM

- "Rush"
- Depressed respiration
- Clouded mental functioning
- Nausea and vomiting
- Suppression of pain
- Spontaneous abortion

## LONG TERM

- Bad teeth
- Inflammation of the gums
- Constipation
- Cold sweats
- Itching
- Weakening of the immune system
- Coma
- Respiratory (breathing) illnesses
- Muscular weakness, partial paralysis
- Reduced sexual capacity and long-term impotence in men
- Menstrual disturbance in women
- Inability to achieve orgasm (women and men)
- Loss of memory and intellectual performance
- Introversion
- Depression
- Pustules on the face
- Loss of appetite
- Insomnia



# HEROIN CONTINUED

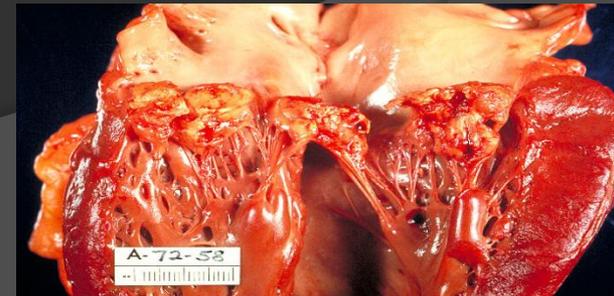
- Prescription opioid pain medications such as Oxycontin and Vicodin can have effects similar to heroin when taken in doses or in ways other than prescribed, and they are currently among the most commonly abused drugs in the United States. Research now suggests that abuse of these drugs may open the door to heroin abuse.

## **A vicious circle**

- During the 1850s, opium addiction was a major problem in the United States.
- Tried to help opium addiction by providing morphine
- Tried to help morphine addiction by providing heroin
- Tried to help heroin addiction by providing methadone
- Methadone is unfortunately proving to be more addictive than heroin.
- By the late 1990s, the mortality rate of heroin addicts was estimated to be as high as twenty times greater than the rest of the population.

# HOW HEROIN KILLS YOU

- Most people die from heroin overdoses when their bodies **forget to breathe**.
- Your **blood pressure** can dip significantly and cause your heart to fail.
- Intravenous heroin users are 300 times more likely to die from **infectious endocarditis**, an infection of the surface of the heart.
- Heroin use can also cause an arrhythmia, the heart may not be able to pump enough blood to the body, and lack of blood flow affects your brain, heart and other organs.
- Heroin use can also cause **pulmonary edema**. That's when the heart can't pump blood to the body well. The blood can back up into your veins, taking that blood through your lungs and to the left side of the heart.



# EMS CONSIDERATIONS

- Infectious diseases
- Unsanitary conditions
- Overdoses - Naloxone (Narcan) is an opioid receptor antagonist medication that can eliminate all signs of opioid intoxication to reverse an opioid overdose.

# INHALENTS

- ⦿ Vapors from toxic substances which are inhaled to reach a quick high
- ⦿ Slow down the body's functions. After an initial high and loss of inhibition comes drowsiness, light-headedness and agitation.
- ⦿ Inhalants starve the body of oxygen and force the heart to beat irregularly and more rapidly.

# INHALENTS

## COMMONLY USED

- ⦿ shoe polish
- ⦿ glue
- ⦿ toluene
- ⦿ gasoline
- ⦿ lighter fluid
- ⦿ nitrous oxide "whippets"
- ⦿ spray paint
- ⦿ cleaning fluid
- ⦿ amyl nitrite "poppers"
- ⦿ locker room deodorizers or "rush"
- ⦿ lacquer thinner/paint solvents.
- ⦿ air duster

## STREET NAMES

Air blast	Ames
Amys	Bolt
Boppers	Bullet
Bullet bolt	Buzz bomb
Discorama	Hardware
Heart-on	Viagra in a bottle
Highball	Hippie crack
Huff	Laughing gas
Locker room	Medusa

# INHALENTS



"Whippets" - nitrous oxide canisters that are found inside a whipped cream container

# INHALENT SIDE EFFECTS

## SHORT/LONG TERM

- Slurred speech
- Drunk, dizzy or dazed appearance
- Inability to coordinate movement
- Hallucinations and delusions
- Hostility
- Apathy
- Impaired judgment
- Unconsciousness
- Severe headaches
- Rashes around the nose and mouth
- Prolonged sniffing of these chemicals can induce irregular and rapid heartbeat and lead to heart failure and death within minutes.
- Death from suffocation can occur by replacing oxygen in the lungs with the chemical, and then in the central nervous system, so that breathing ceases.
- Muscle weakness
- Disorientation
- Lack of coordination
- Irritability
- Depression
- Serious and sometimes irreversible damage to the heart, liver, kidneys, lungs and brain
- Memory impairment, diminished intelligence
- Hearing loss
- Bone marrow damage
- Deaths from heart failure or asphyxiation (loss of oxygen)

\*\*Huffing Video\*\*

# PRESCRIPTION PILLS



- Recreational use of prescription drugs is a serious problem with teens and young adults. National studies show that a teen is more likely to have abused a prescription drug than an illegal street drug.
- Many teens think prescription drugs are safe because they were prescribed by a doctor. But taking them for nonmedical use to get high or “self-medicate” can be just as dangerous and addictive as taking illegal street drugs.
- Depressants, opioids and antidepressants are responsible for more overdose deaths (45%) than cocaine, heroin, methamphetamine and amphetamines (39%) combined. Of the 1.4 million drug-related emergency room admissions in 2005, 598,542 were associated with abuse of pharmaceuticals alone or with other drugs.
- In 2005, 4.4 million teenagers (aged 12 to 17) in the US admitted to taking prescription painkillers, and 2.3 million took a prescription stimulant such as Ritalin. 2.2 million abused over-the-counter drugs such as cough syrup. The average age for first-time users is now 13 to 14.

# COMMONLY ABUSED PILL TYPES

- Depressants: These drugs slow brain function. They include sedatives (used to make a person calm and drowsy) and tranquilizers (intended to reduce tension or anxiety). *Ativan, Valium, Xanax*
- Opioids and morphine derivatives: Generally referred to as painkillers, these drugs contain opium or opium-like substances and are used to relieve pain. *Lortab, Percocet, Vicodin, Oxy, Hydrocodone*
- Stimulants: A class of drugs intended to increase energy and alertness but which also increase blood pressure, heart rate and breathing. *Adderall, Ritalin, Vyvanse*
- Antidepressants: Psychiatric drugs that are supposed to handle depression. *Zoloft, Paxil, Abilify*



# FENTANYL



 NDC 0378-9123-16  9123:2M

**FENTANYL  
TRANSDERMAL SYSTEM**

**75 mcg/hr** 

*In vivo* delivery of 75 mcg/hr fentanyl for 72 hours

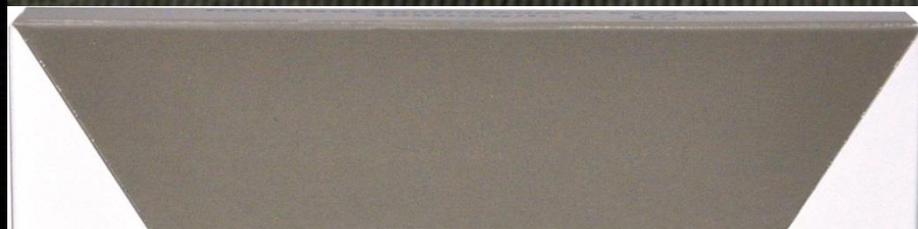
**NOT FOR ACUTE OR POSTOPERATIVE USE**

Each transdermal system contains:  
7.65 mg fentanyl  
One (75 mcg/hr) System

**ATTENTION:**  
Only for use by  
patient for whom  
prescribed.



N 3 0378-9123-16 9



NDC 0406-9000-76 **Five (100mcg/hr) Systems**

**FENTANYL TRANSDERMAL SYSTEM**

**Rx only** **100mcg/hr** 

*In vivo* delivery of 100mcg/hr fentanyl for 72 hours

**Because it can cause trouble breathing which can be fatal, DO NOT USE FENTANYL TRANSDERMAL SYSTEM:**

- For short term or any post-operative pain, or occasional pain
- For mild pain or pain that can be treated with non-opioid or as-needed opioid medication
- Unless you have been using other narcotic opioid medicines (must be opioid tolerant)

Each transdermal system contains: 11.0mg fentanyl  
**DO NOT USE IF SEAL ON POUCH IS BROKEN**  
**KEEP OUT OF REACH OF CHILDREN**  
Read enclosed fentanyl transdermal system Medication Guide for important safety information.

**ONLY for pain requiring opioid medicine around-the-clock**

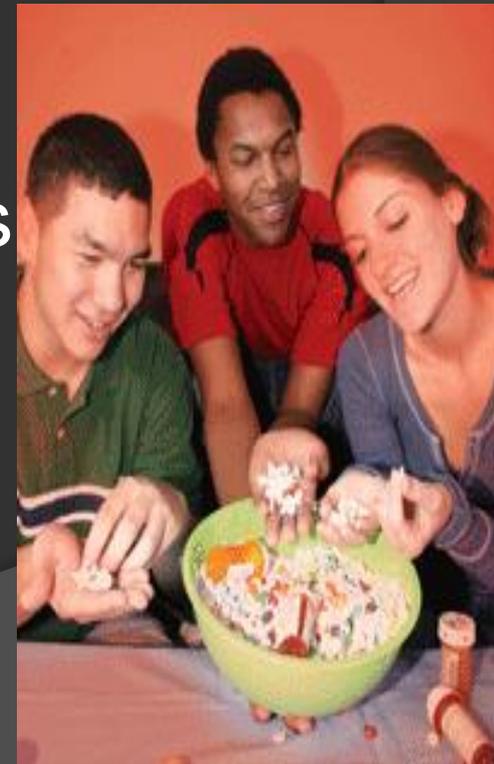
**Mallinckrodt**

# FENTANYL

- Opioid commonly used to prevent pain after surgery or patients with persistent pain not managed by other opioids.
- Unmixed Fentanyl is 50-100 times more potent than morphine.
- Patch or lozenge – Faster release = better high
- Overdose Symptoms: clammy skin, seizures, inability to be awakened, LBP, pinpoint pupils, slowed heart rate and breathing
- Get medical attention immediately!!

# EMS CONSIDERATIONS

- Pharm Parties
- Unknown drug used
- Look for bottles/packaging
- Ask questions
- Consider multiple classes of drugs board

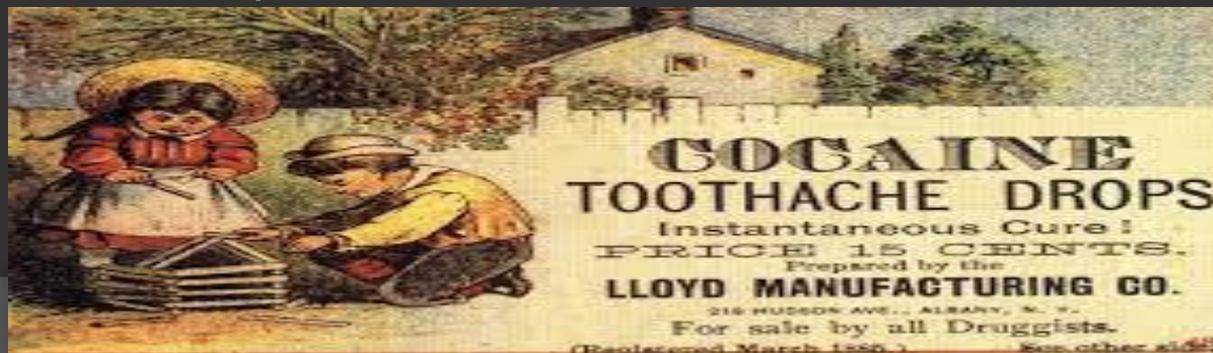


# COMMON RX

- Hydrocodone
- Balclofen
- Methadone
- Hydromorphone
- Risperidone
- Afflexor
- cyclobenzaprine
- Vicodin
- Prednisone
- Morphine
- Clonazepam
- Vyvanse
- Oxycodone
- Trazodone
- Alprazolam
- Lorazepam
- Abilify
- Escitalopram
- Sertaline HTC
- Adderall

# COCAINE – PARTY DRUG

- Extracted from coca leaves, cocaine was originally developed as a painkiller. It is most often sniffed, with the powder absorbed into the bloodstream through the nasal tissues. It can also be ingested or rubbed into the gums.
- The word cocaine refers to the drug in a powder form or crystal form.
- In the United States, cocaine continues to be the most frequently mentioned illegal drug reported to the Drug Abuse Warning Network by hospital emergency departments. There were 448,481 emergency department visits involving cocaine reported in 2005.



# COCAINE



- Next to methamphetamine, cocaine creates the greatest psychological dependence of any drug. It stimulates key pleasure centers within the brain and causes extremely heightened euphoria.
- A tolerance to cocaine develops quickly—the addict soon fails to achieve the same high experienced earlier from the same amount of cocaine.
- As cocaine interferes with the way the brain processes chemicals, one needs more and more of the drug just to feel “normal.” People who become addicted to cocaine (as with most other drugs) lose interest in other areas of life.
- Coming down from the drug causes depression so severe that a person will do almost anything to get the drug—even commit murder. And if he or she can’t get cocaine, the depression can get so intense it can drive the addict to suicide.

# COCAINE SHORT TERM EFFECTS

- Loss of appetite
- Increased heart rate, blood pressure, body temperature
- Contracted blood vessels
- Increased rate of breathing
- Dilated pupils
- Disturbed sleep patterns
- Nausea
- Hyperstimulation
- Bizarre, erratic, sometimes violent behavior
- Hallucinations, hyperexcitability, irritability
- Tactile hallucination that creates the illusion of bugs burrowing under the skin
- Intense euphoria
- Anxiety and paranoia
- Depression
- Intense drug craving
- Panic and psychosis
- Convulsions, seizures and sudden death from high doses (even one time)



# COCAINE LONG TERM EFFECTS

- Permanent damage to blood vessels of heart and brain
- High blood pressure, leading to heart attacks, strokes, and death
- Liver, kidney and lung damage
- Destruction of tissues in nose if sniffed
- Respiratory failure if smoked
- Infectious diseases and abscesses if injected
- Malnutrition, weight loss
- Severe tooth decay
- Auditory and tactile hallucinations
- Sexual problems, reproductive damage and infertility (for both men and women)
- Disorientation, apathy, confused exhaustion
- Irritability and mood disturbances
- Increased frequency of risky behavior
- Delirium or psychosis
- Severe depression
- Tolerance and addiction

# COCAINE

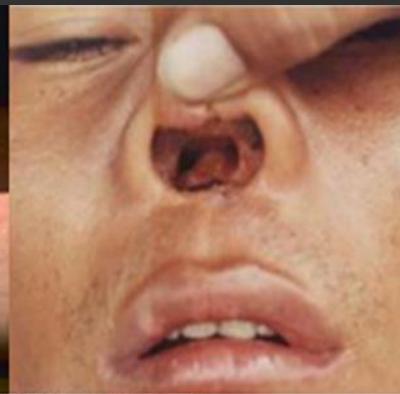


- Speed Balls – Cocaine & Heroin or Morphine mix
- Cocaine is a stimulant, Heroin and morphine act as depressant.
- By suppressing the typical negative side-effects of the two drugs, the user may falsely believe they have a higher tolerance, or that they are less intoxicated than they actually are. This can cause users to misjudge the intake of one or both of the drugs, sometimes fatally.



# EMS CONSIDERATIONS

- Patients with cocaine toxicity may be combative, aggressive, and disoriented, and have delusions of persecution or hallucinations.
- Burnt fingertips, lips or singed facial hair from holding pipe to their mouth while applying extreme heat



Cocaine Abuse Will Affect You  
Mentally and Physically

# CRACK COCAINE



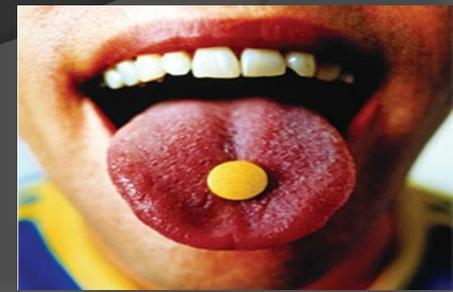
- Crack cocaine is the crystal form of cocaine, which normally comes in a powder form.
- To make crack, powder cocaine is dissolved in a mixture of water and either ammonia or sodium bicarbonate (baking soda). The mixture is boiled to separate out the solid, and then it's cooled. The solid is then dried and cut up into small nuggets, or "rocks."
- Crack is heated and smoked. It is so named because it makes a cracking or popping sound when heated.
- Crack is the most potent form of cocaine. It is between 75% and 100% pure, far stronger and more potent than regular cocaine.
- Rich mans drug vs. Poor mans drug



# ECSTASY – CLUB DRUGS



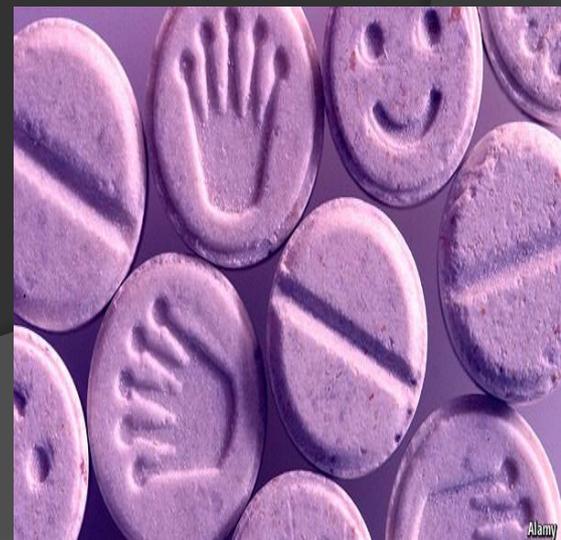
- Street Names- Adam, E, Molly, Roll, X, XTC
- MDMA or Ecstasy (3-4-methylenedioxyampheta-mine), is a synthetic, psychoactive drug with amphetamine-like and hallucinogenic properties.
- Ecstasy comes in a tablet form that is often branded, e.g. Playboy bunnies, Nike swoosh. MDMA also comes in a powder, capsule or liquid form.
- Users report that Ecstasy produces intensely pleasurable effects — including a boost in energy and empathy. Users say they experience feelings of closeness with others and a desire to touch others. Other effects can include involuntary teeth clenching, a loss of inhibitions, nausea, blurred vision, chills and/or sweating. Releases **Serotonin, Oxytocin, and Dopamine**



# ECSTASY AND EMS

- Increases heart rate and blood pressure
- Seizures
- The stimulant effects of the drug enable users to dance for extended periods, which when combined with the hot crowded conditions usually found at raves, can lead to severe dehydration and hyperthermia (i.e. dramatic increases in body temperature). This can lead to muscle breakdown and kidney, liver and cardiovascular failure. Hyperthermia has also been reported in some of the Ecstasy-related fatalities.

# ECSTASY- WHAT IT LOOKS LIKE

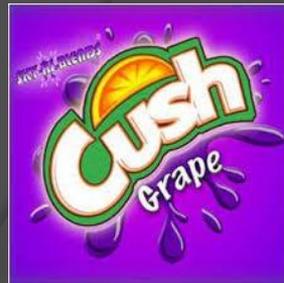


# SYNTHETIC MARIJUANA/BATH SALTS



# SYNTHETIC MARIJUANA

- Beginning in 1984, John Huffman and his team of researchers began developing cannabinoid compounds to aid in research of multiple sclerosis, HIV/AIDS, and chemotherapy.
- Synthetic marijuana is a designer drug in which herbs, incense or other leafy materials are sprayed with lab-synthesized liquid chemicals to mimic the effect of tetrahydrocannabinol (THC)
- Synthetic marijuana, also known by the name of “Spice” or “K2” first became available in the U.S. in 2008. It was frequently marketed as an incense in colorful three ounce pouches and labeled “not for human consumption”. Spice or K2 became increasingly popular with high school students and young adults because it was legally obtainable from convenience stores, smoke shops, and online - until July 2012 when a national ban was enacted against the sale of synthetic cannabinoids in the U.S.



# BATH SALTS

- Bath Salts are substituted cathinones, which are synthetic, concentrated versions of the stimulant chemical in Khat. Methylendioxypropylrovalerone (MDPV), mephedrone and methylone are the chemicals most often found in Bath Salts.
- Bath Salt products are commonly sold in powder form in small plastic or foil packages. Online is best source.
- Short-term effects include very severe paranoia that can sometimes cause users to harm themselves or others. Effects reported to Poison Control Centers include suicidal thoughts, agitation, combative/violent behavior, confusion, hallucinations/psychosis, increased heart rate, hypertension, chest pain, death or serious injury. The speed of onset is 15 minutes, while the length of the high from these drugs is 4-6 hours.



# QUESTIONS??

- Mid Iowa Drug Task Force 641-745-6392
- Det. Sgt. James Gibson 641-844-2854
- Office of Drug Control Policy  
<http://www.iowa.gov/odcp/>
- Poison Control – 1-800-222-1222