

Drug Identification and Current Drug Trends

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GOALS

- Introduce you to common drugs used / abused in society today and the paraphernalia used to ingest various drugs.
- Introduce you to general indicators of drug impairment.
- Talk about current drug trends regarding youth.
- Answer your questions about drugs.

Disclaimer:

I want you to see REAL life subjects under the influence to help your learning be more effective. Some of my videos contain cursing by those subjects under the influence. Please do not take offense to this.

CASE STUDY



7 Categories of Drugs

- CNS Depressants
- CNS Stimulants
- Hallucinogens
- Dissociative Anesthetics
- Narcotics
- Inhalants
- Cannabis

Drugs described through the many faces of Jim Carrey



CENTRAL NERVOUS SYSTEM DEPRESSANTS



Diazepam (Valium) tablets
Anonymous Photographer, © 2000 Erowid.org



CNS Depressants

- ☠ The most highly abused depressant is alcohol
- ☠ Other depressants commonly abused are: Xanax (Alprazolam), Prozac, Ambien, Clonazepam, Soma, Benadryl, and Ativan (Lorazepam)

General Impairment

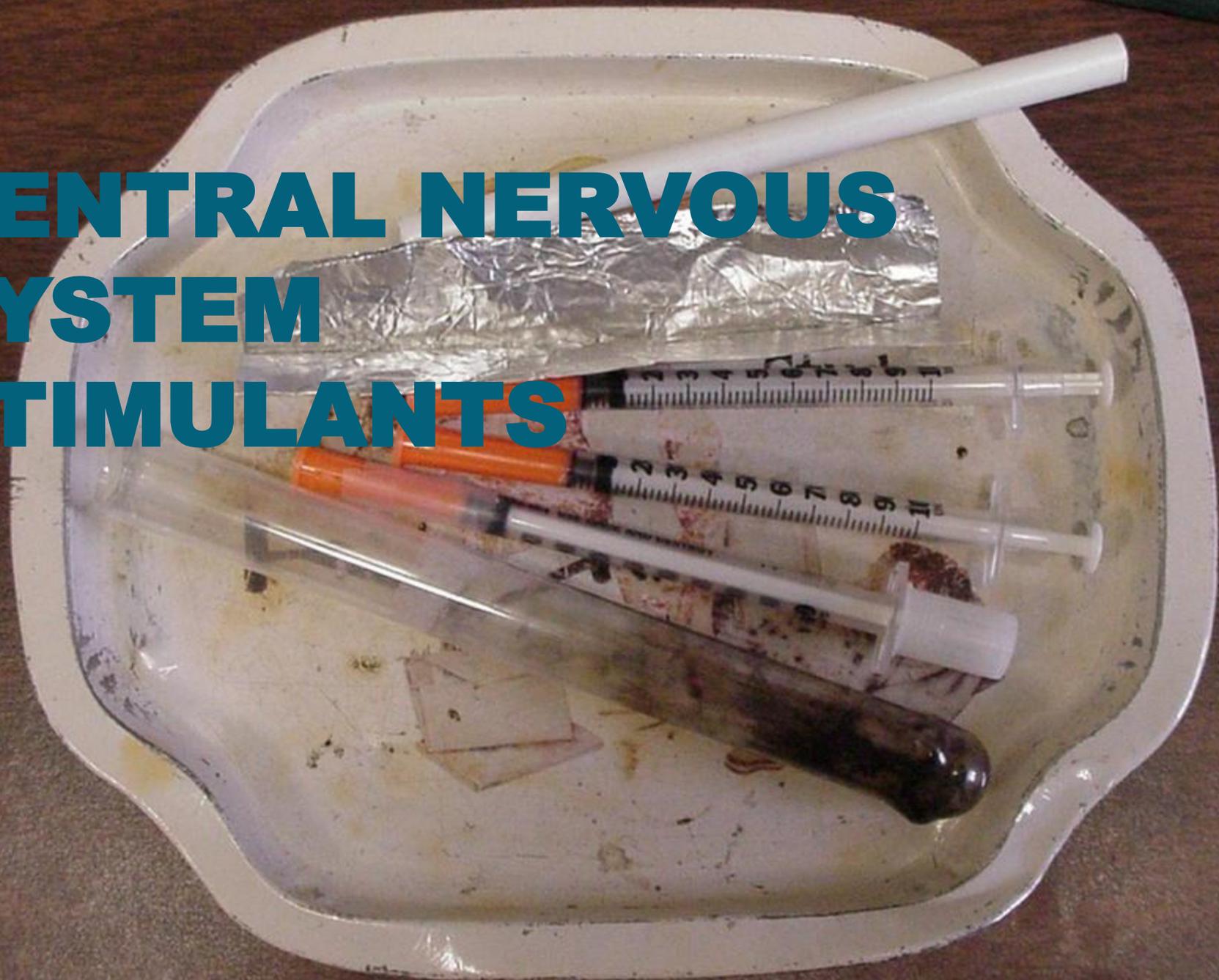
CNS Depressants

- **Slow & slurred speech**
- **Possible odor of alcohol**
- **Staggering, stumbling, or appearing drunk**
- **Dilated pupils**
- **Lack of coordination**
- **Gait Ataxia (walking clumsily)**
- **Drowsiness**
- **Droopy eyes or bloodshot, watery eyes**

Signs of Ingestion

- Since most are taken orally, there won't be much for signs of ingestion, but injection sites may be visible.

CENTRAL NERVOUS SYSTEM STIMULANTS





Faces of Meth

CNS Stimulants

 *Amphetamines*

 *Ritalin, Cylert, Dexedrine, Benzedrine*

 *Methamphetamine*

 *Cocaine*

 *KHAT*

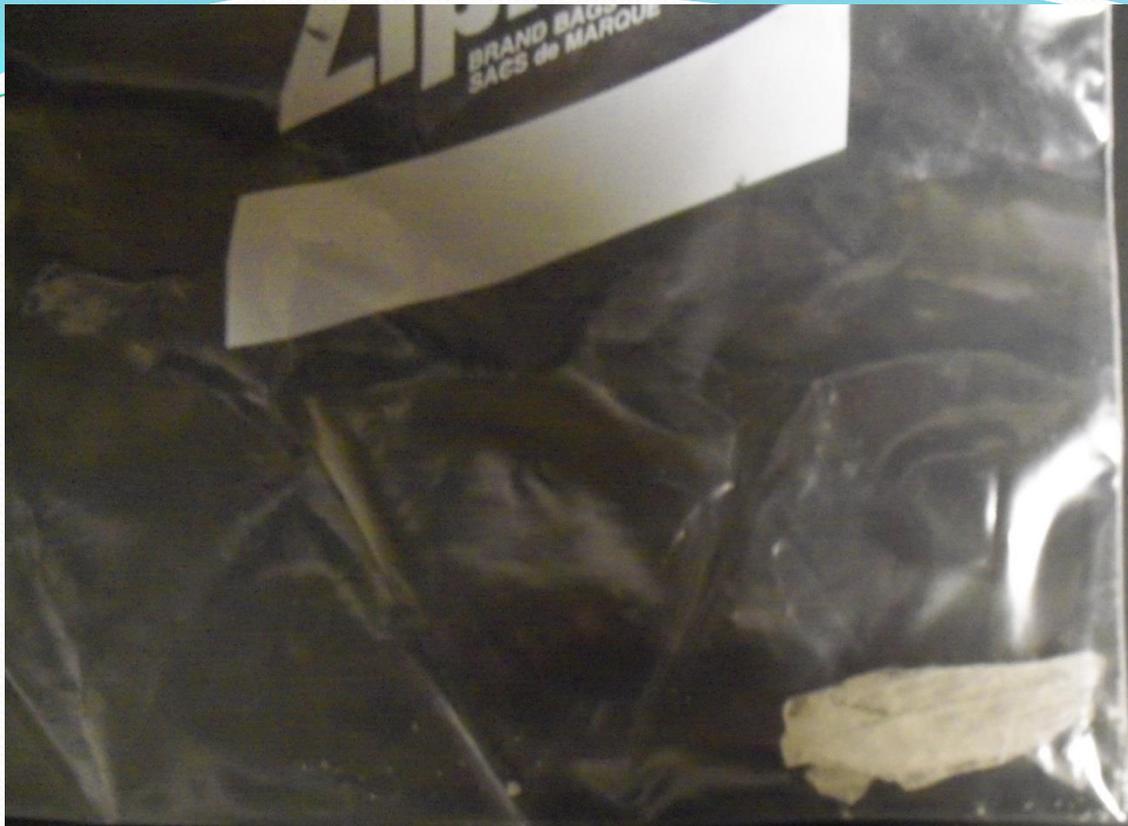
 *Caffeine*

Crack Cocaine



Powder Form Cocaine





***Large shard
Methamphetamine***







General Impairment

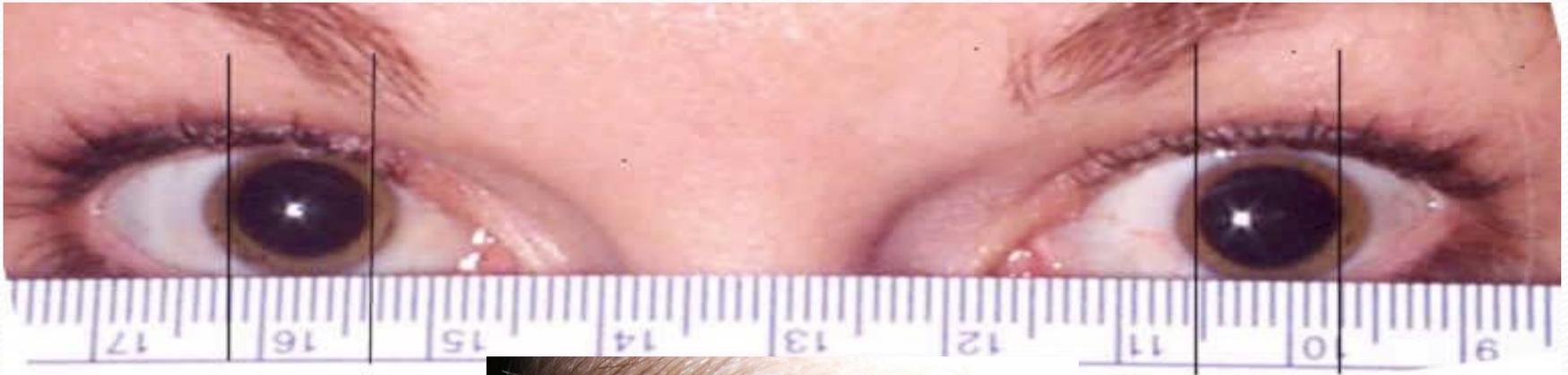
CNS Stimulants

-  CNS Stimulants speed up the operation of the brain and spinal cord
-  This causes an increased in heart rate, respiration, and blood pressure

To Include

-  Exaggerated reflexes, irritable, argumentative, or nervous
-  Extended periods without sleeping or eating
-  Dilated Pupils
-  Aggressiveness
-  Dirty and unkempt appearance
-  Extreme paranoia
-  Bruxism-The grinding of the teeth
-  Loss of appetite
-  Insomnia
-  Irritability
-  Increased Alertness
-  Excited, euphoric, and talkative

Example of Dilated Pupils



Bath Salts



Signs of Ingestion

CNS Stimulants

Intravenously

Orally

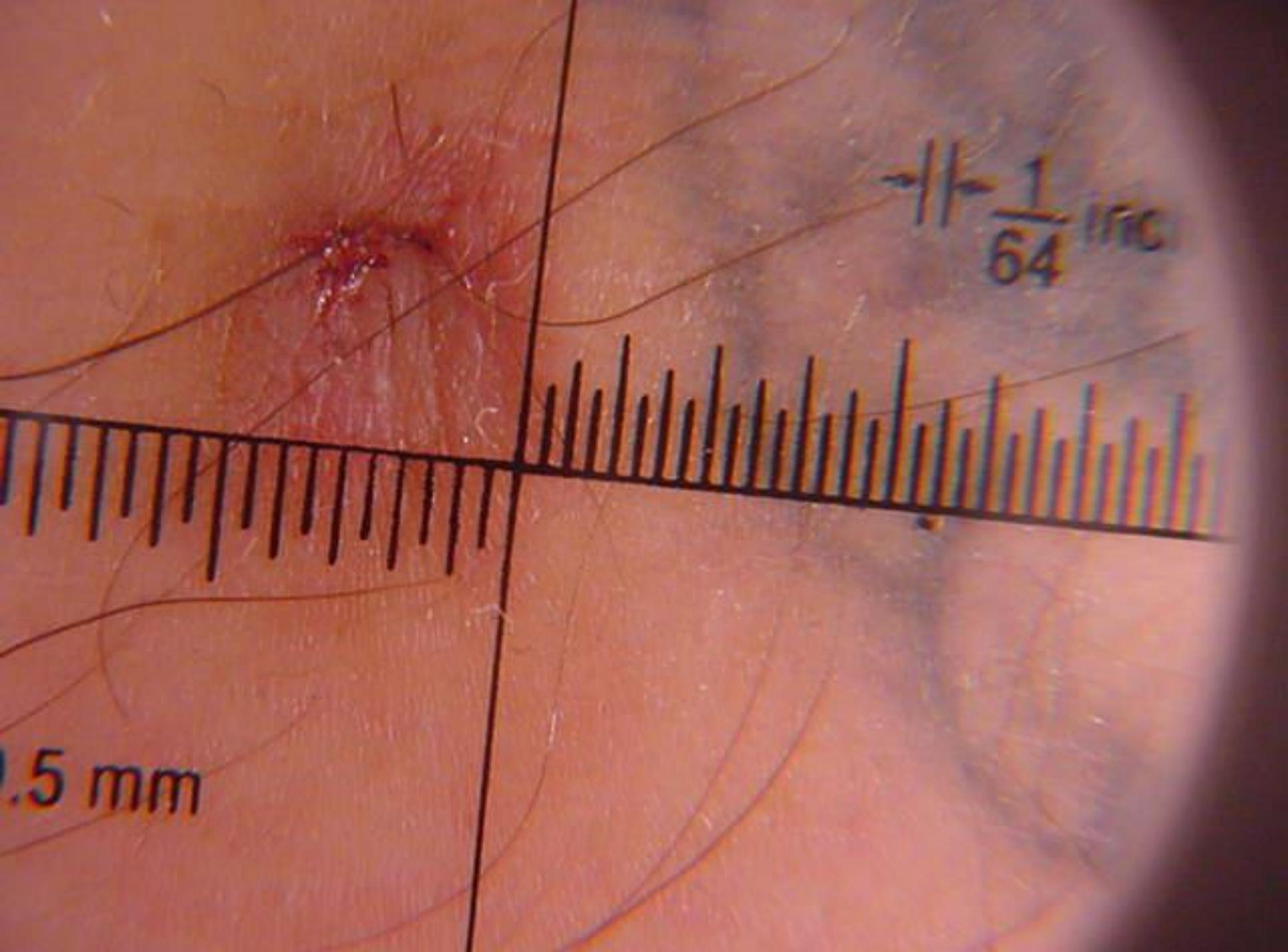
Snorted

Smoked



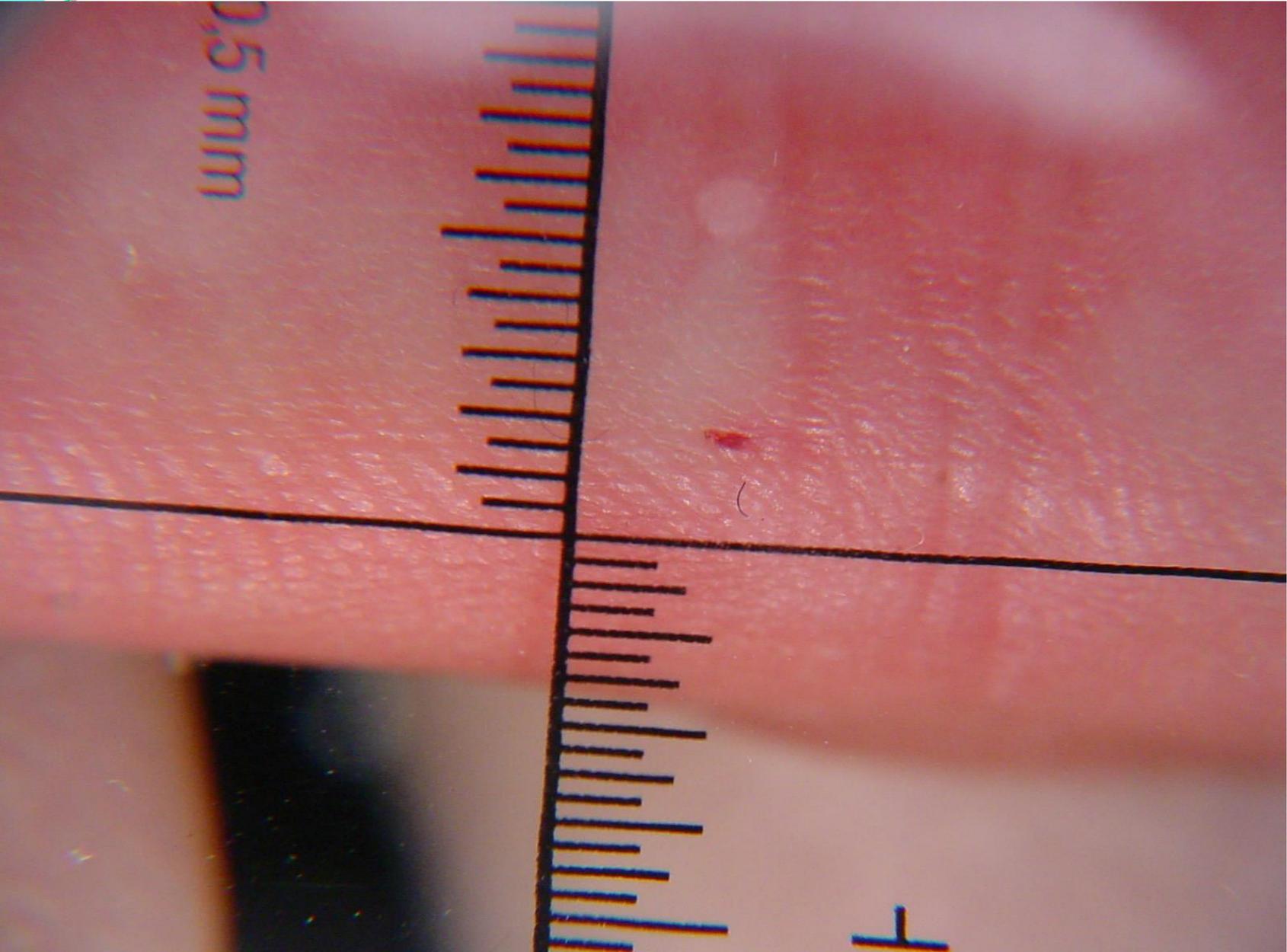


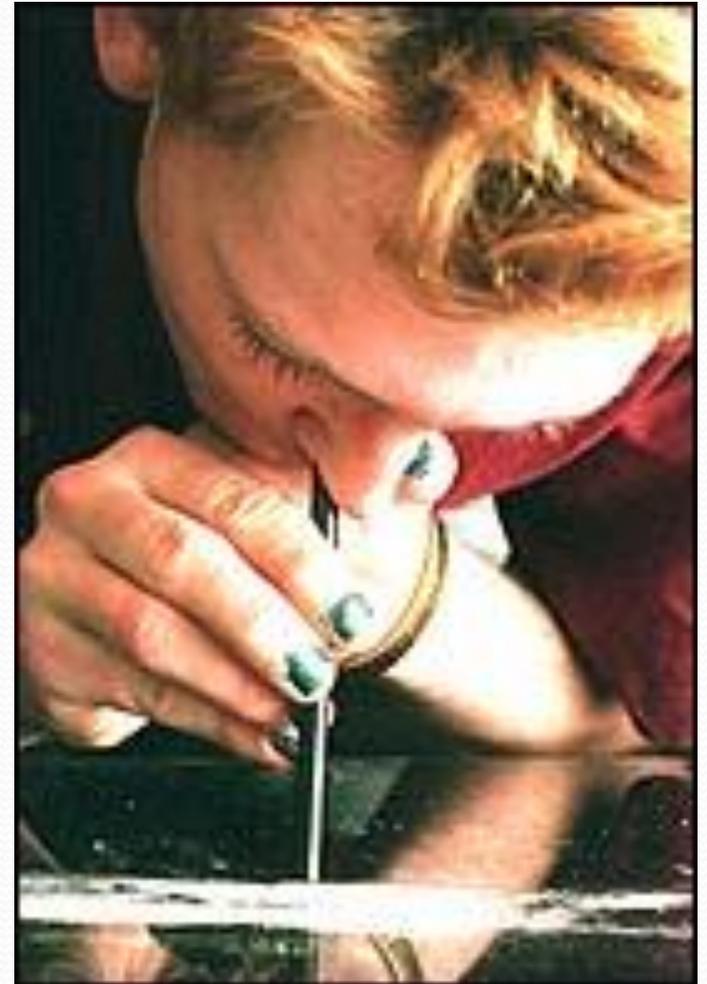
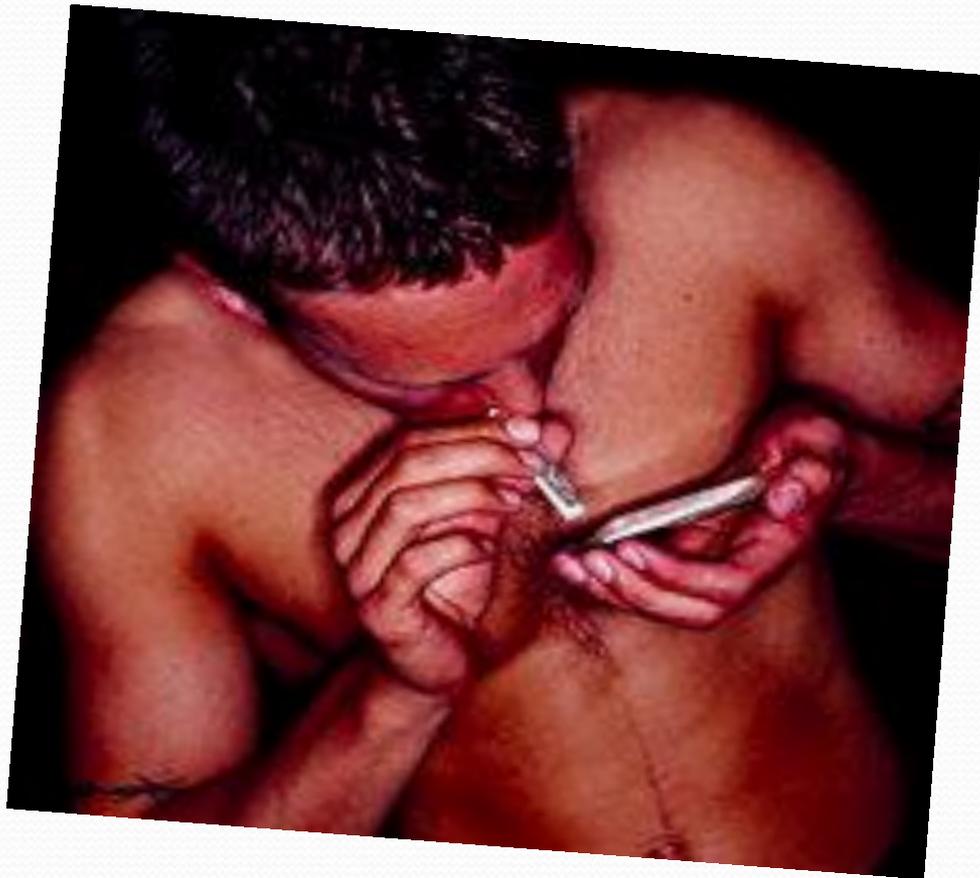


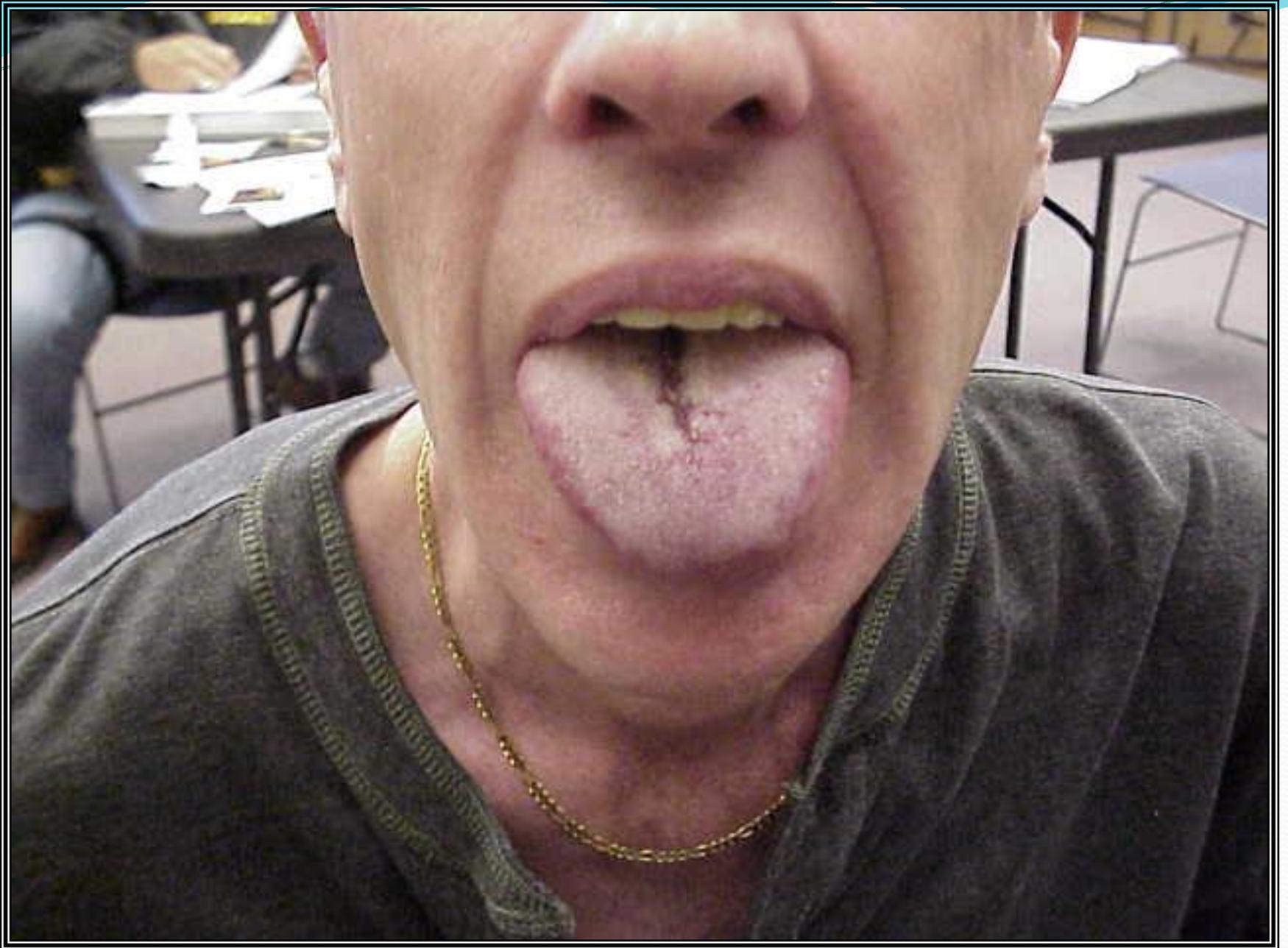


||| $\frac{1}{64}$ mm

.5 mm







Bruxism



DRUGS AFFECT ON THE BODY



Duration of Effects

Methamphetamine can last up to 12 hours.

Cocaine can last 5 to 120 minutes depending on how it's taken.

Bath Salts roughly 3-4 hours or more.

Hallucinogens

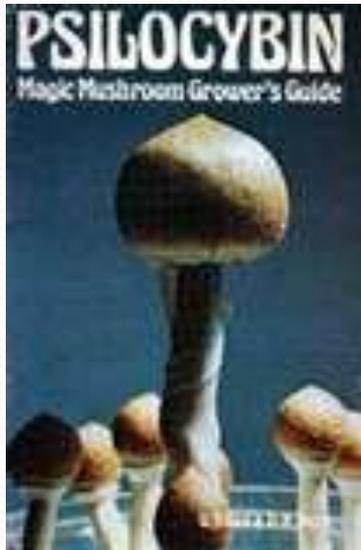


Hallucinogens

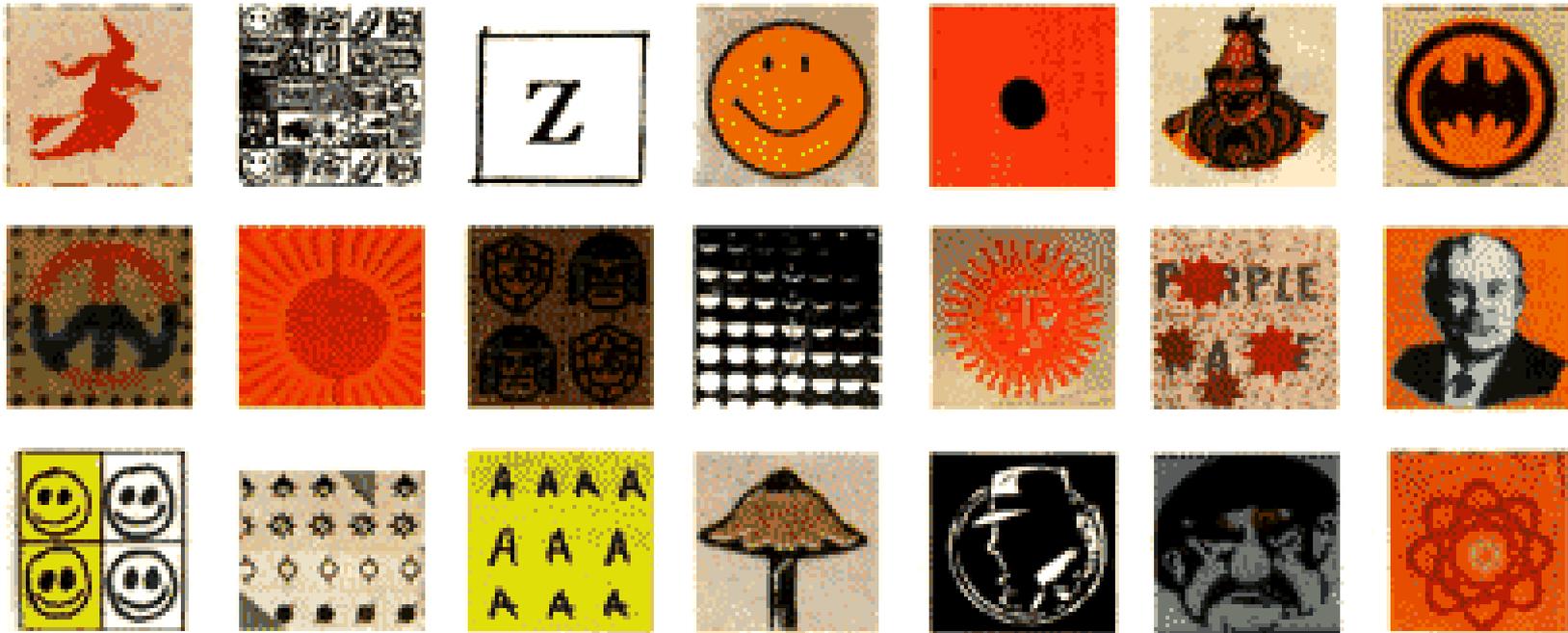
- ☠ A hallucination is a sensory experience of something that does not exist outside of the mind
- ☠ These drugs often produce “pseudo-hallucinations”, this means the user typically knows what he/she is seeing, feeling, hearing, smelling, etc.– What they are experiencing is not real, and therefore it is caused by the drug
- ☠ Most hallucinogens are not addictive
- ☠ Hallucinogens are most commonly ingested orally
- ☠ Hallucinogens are either synthetic or naturally occurring
- ☠ Examples of hallucinogens are: Mushrooms (Psilocybin), Peyote, Nutmeg, Jimson Weed, Morning Glory Seeds, Bufotenine (frogs), Salvia, LSD, and MDMA (Ecstasy)



Hallucinogens



LSD Blotter Paper



Hallucinogens

Signs & Symptoms:

- ☠ *Dazed Appearance*
- ☠ *Body Tremors*
- ☠ *Perspiration*
- ☠ *Uncoordinated Movements*
- ☠ *Rigid Muscle Tone*
- ☠ *Difficulty With Speech*
- ☠ *Statements Suggesting Hallucinations*
- ☠ *Distorted Sensory Perceptions*
- ☠ *Dilated Pupils*



“Molly” or “Mollies”





What is 2C-B 2C-T-7?

These are psychoactive or hallucinogenic compounds similar to mescaline. Because they are produced in clandestine laboratories, they are seldom pure and the amount in a capsule or tablet is likely to vary considerably.

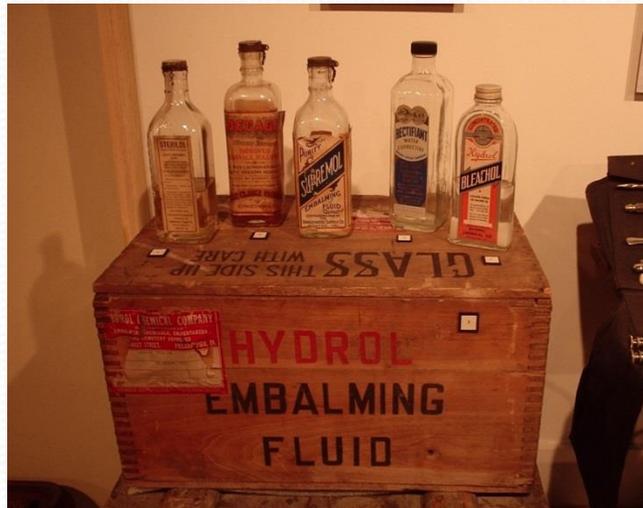
What does it look like?

Both are sold in powder or in pill form.

Signs of Ingestion:

Most are taken orally so typically will only have debris in mouth. ■

Dissociative Anesthetics



Dissociative Anesthetic

This drug cuts off the brain's perceptions of the senses.

Examples of this category are:

- *Phencyclidine (PCP)*
- *Analogs of PCP such as Ketamine*
- *Dextromethorphan or DXM (Nyquil, Vicks 44, Robitussin, and Coricidin cough and Cold.*
- *Embalming Fluid*





DXM Plateaus

Abusers describe the DXM experience as occurring on four different plateaus. Abusers ingest increasing amounts of DXM (based on their weight) to reach each succeeding plateau. Abusers report the following effects occurring in each plateau:

First Plateau: Mild inebriation.

Second Plateau: An effect similar to alcohol intoxication and, occasionally, mild hallucinations. The abuser's speech can become slurred, and short-term memory may be temporarily impaired.

Third Plateau: An altered state of consciousness. The abuser's senses, particularly vision, can become impaired.

Fourth Plateau: Mind and body dissociation or an "out-of-body" experience. The abuser can lose some or all contact with his or her senses. The effects at this plateau are comparable to the effects caused by ketamine or PCP (phencyclidine).

Dextromethorphan



Robitussin®

MAXIMUM STRENGTH COUGH

Indications: Temporarily relieves cough due to minor throat and bronchial irritation as may occur with a cold.

Ingredients per teaspoonful (5 mL)
Dextromethorphan Hydrobromide, USP 15 mg.
Inactive ingredients listed on bottom of carton.

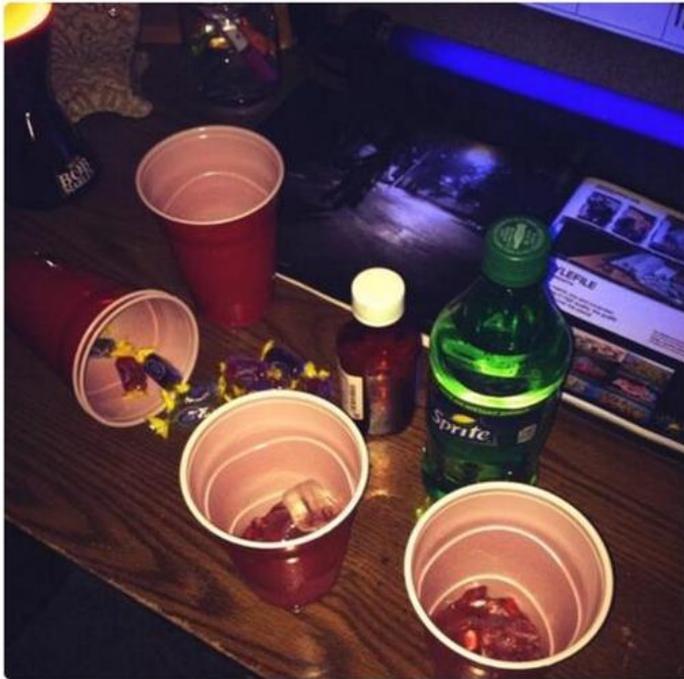
DIRECTIONS: Follow dosage recommenda-



Cough Syrup/DXM

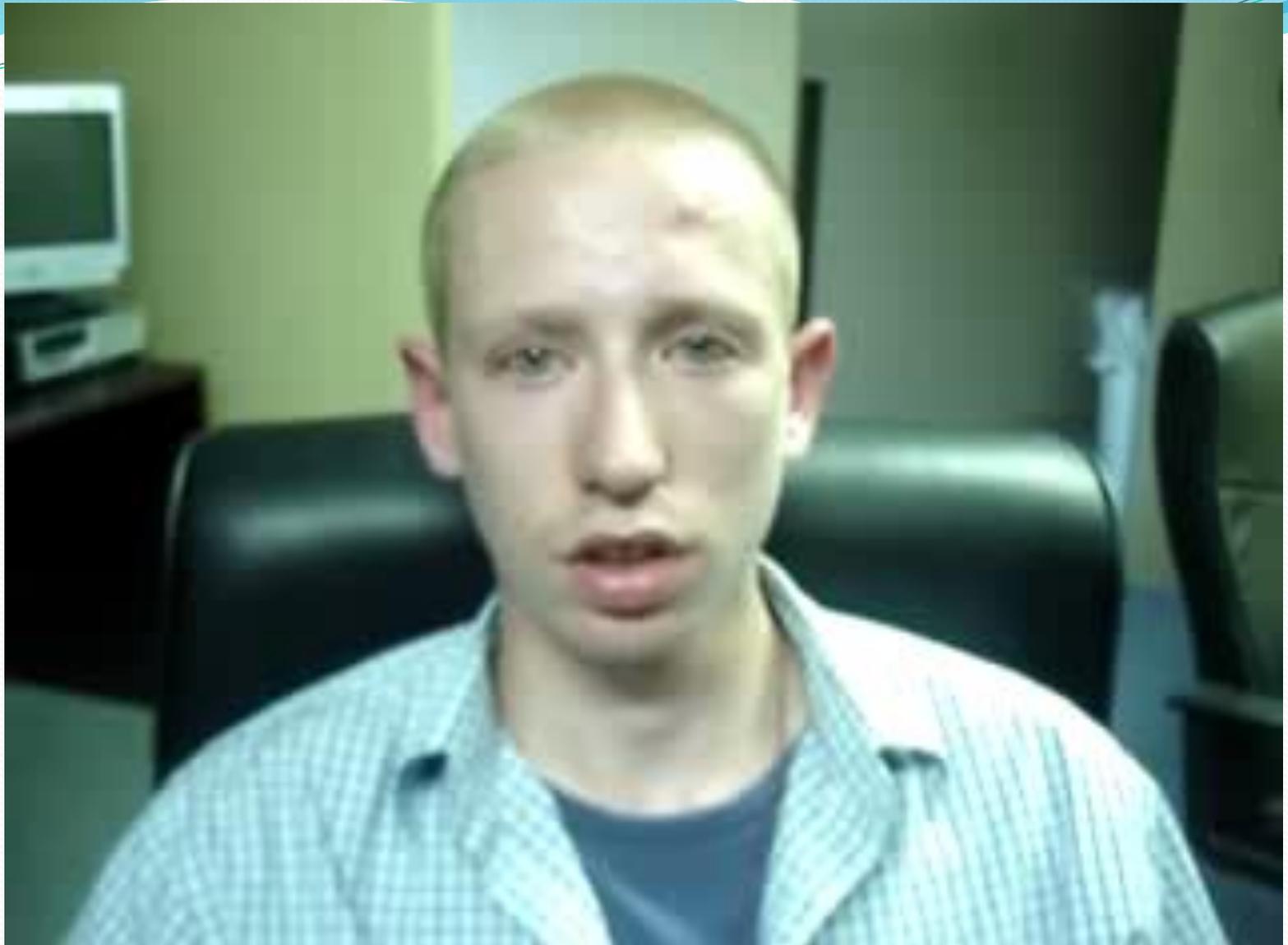


ManuelL @real_panda308 · 24 Jan 2014
Sippin on that purp @IsaiahG_1 🍷



👤 1 ❤️ ⋮





Dissociative Anesthetics

General Indicators:

- ☠ *Gait Ataxia*
- ☠ *Slow, slurred speech*
- ☠ *Disorientation*
- ☠ *Loss of memory*
- ☠ *Agitation, excitement*
- ☠ *Blank stare*
- ☠ *Passivity, but can often times abruptly turn violent*
- ☠ *Auditory hallucinations*
- ☠ *A feeling of extreme heat*
- ☠ *Increased pain threshold*



Dissociative Anesthetics cont...

PCP can produce extreme physical, as well as psychological distress:

- ☠ *A deep coma, lasting up to 12 hours*
- ☠ *Seizures and convulsions*
- ☠ *Respiratory depression*
- ☠ *Possible cardiac problems*
- ☠ *Prolonged use of PCP can lead to psychosis (insanity)*



Examples of PCP Abuse

-  *A young man methodically pulled out his own teeth with a pair of pliers.*
-  *Another drank rat poison, hoping to kill the rats that he imagined were infesting his body.*
-  *A third suffered hallucinations of unbelievably grotesque monsters, and gouged out his eyes to avoid seeing the monsters.*
-  *A 26 year old nude woman in Washington DC repeatedly plunged a butcher knife into her own eye, chest, groin, and abdomen. She then threatened a police officer with the knife and was shot to death.*

Signs of Ingestion

- Red or purple coating in mouth
- Can have injection marks from Ketamine
- Smoked-"dipped cigarettes" (PCP or Embalming Fluid)
- Ketamine can also be snorted if used in powder form

Narcotic Analgesic

An “Analgesic” is a drug that relieves pain. It differs from an anesthetic, in that it lowers one’s perception of pain, rather than stopping nerve transmission.

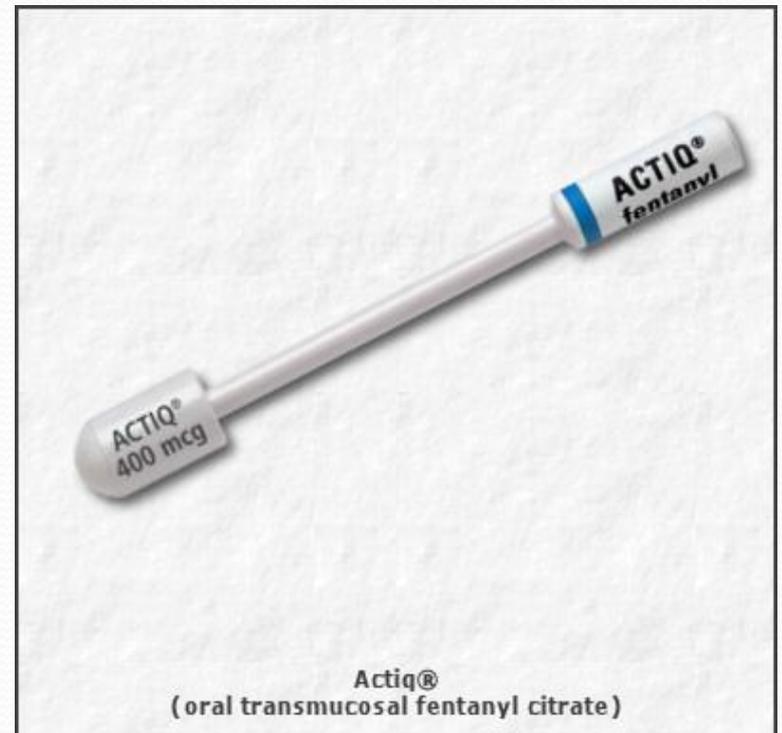


Narcotic Analgesics

Examples of narcotics:

-  *Morphine – highly addictive, used to suppress severe pain*
-  *Codeine -- used to suppress coughing or minor pain, also addictive*
-  *Heroin – most abused, very addictive, used for pain until 1925*
-  *Hydrocodone – used to treat pain and coughs*
-  *Percodan – less addictive than morphine, commonly prescribed for pain*
-  *Oxycontin – very addictive, used to treat pain, highly publicized, very popular amongst drug abusers. It was designed so the oxycodone is slowly released over time. When crushed up or chewed, all of the oxycodone is released at one time*

Fentanyl Pills and Pops



Actiq®
(oral transmucosal fentanyl citrate)

Photo: usdoj.gov

Fentanyl Patches



Fentanyl Patch Side Effects

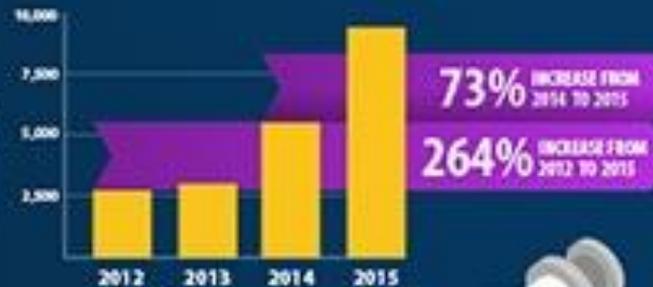
FENTANYL: Overdoses On The Rise



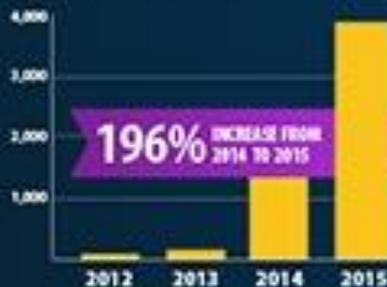
Fentanyl is a synthetic opioid approved for treating severe pain, such as advanced cancer pain. Illicitly manufactured fentanyl is the main driver of recent increases in synthetic opioid deaths.



SYNTHETIC OPIOID DEATHS ACROSS THE U.S.



Ohio Drug Submissions Testing Positive for Illicitly Manufactured Fentanyl



ILLICITLY MANUFACTURED FENTANYL

Although prescription rates have fallen, overdoses associated with fentanyl have risen dramatically, contributing to a sharp spike in synthetic opioid deaths.



**OFTEN MIXED WITH
HEROIN
OR COCAINE
WITH OR WITHOUT
USER KNOWLEDGE**

Fentanyl Slang Terms

Apache; Birria (mixed with heroin); Butter; China Girl; China Town; China White; Chinese; Chinese Food; Crazy; Crazy One; Dance Fever; Dragon; Dragon's Breath; Facebook (mixed with heroin in pill form); Fent; Fenty; Fire; Friend; Girl; Goodfella; Great Bear; He-Man; Jackpot; King Ivory; Lollipop; Murder 8; Poison; Shoes; Tango & Cash; Toe Tag Dope; White Girl

Kratom



● Kratom

- Kratom, an herbal supplement made from the leaf of a Southeast Asian plant, is known as an energizer and pain reliever, and can also be used to wean people off of opioid addictions. It's been known to be used in the bodybuilding community to help lifters feel focused and energized, according to some forums on the topic.

Columbus Mid January 2018



Effects of Kratom

Kratom has an unusual action of producing both stimulant effects at lower doses and more CNS depressant side effects at higher doses. Stimulant effects manifest as increased alertness, boosted physical energy, talkativeness, and a more social behavior. At higher doses, the opioid and CNS depressant effects predominate.

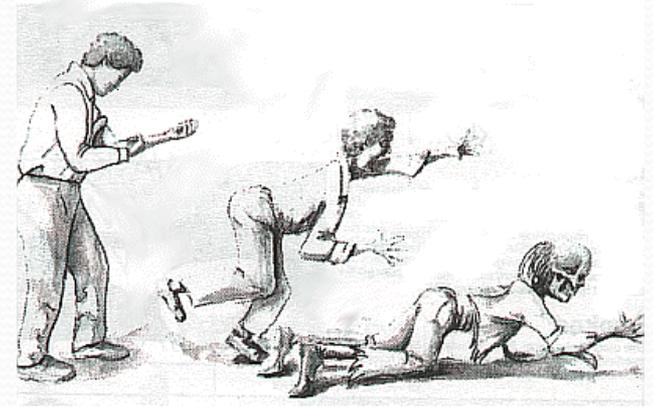
KRATOM-Duration of Effects

Effects are dose-dependent and occur rapidly, reportedly beginning within 10 minutes after consumption and lasting from one to five hours.

Narcotic Analgesic cont...

Signs and Symptoms:

- ☠ Slowed reflexes
- ☠ Slow, low and raspy voice
- ☠ Sluggish, “rubber-like” movements
- ☠ Slowed breathing
- ☠ Cool skin
- ☠ Flaccid muscle tone
- ☠ “On the Nod”
- ☠ Visible track marks
- ☠ Droopy eyelids
- ☠ Facial itching
- ☠ Dry mouth
- ☠ Euphoria
- ☠ Loss of Appetite



Heroin





Constricted Pupils



Signs of Ingestion

Injected

Snorted

Smoked

Oral

Trans-Dermally

Smoking Heroin on Foil





Inhalants

- Volatile Solvents
- Aerosols
- Anesthetic Gases



Inhalants

Commonly abused chemicals used as inhalants:

☠ *Volatile solvents* – airplane glue, plastic cement, paint, gasoline, toluene, fingernail polish and remover, dry cleaning fluids, paint thinners

☠ *Aerosols* – hair spray, deodorants, insecticides, Freon, and vegetable frying pan lubricants. The propellant for the aerosols is what used for the high

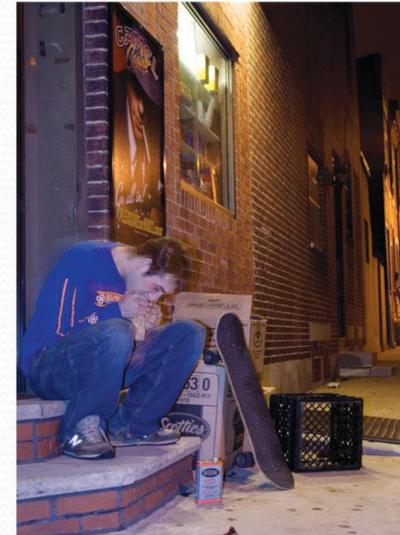
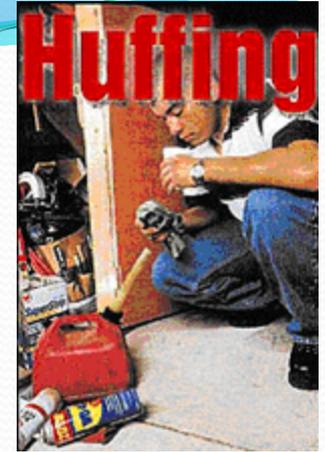
☠ *Anesthetic gases* – ether, chloroform, amyl nitrite, and nitrous oxide (propellant for whipped cream)

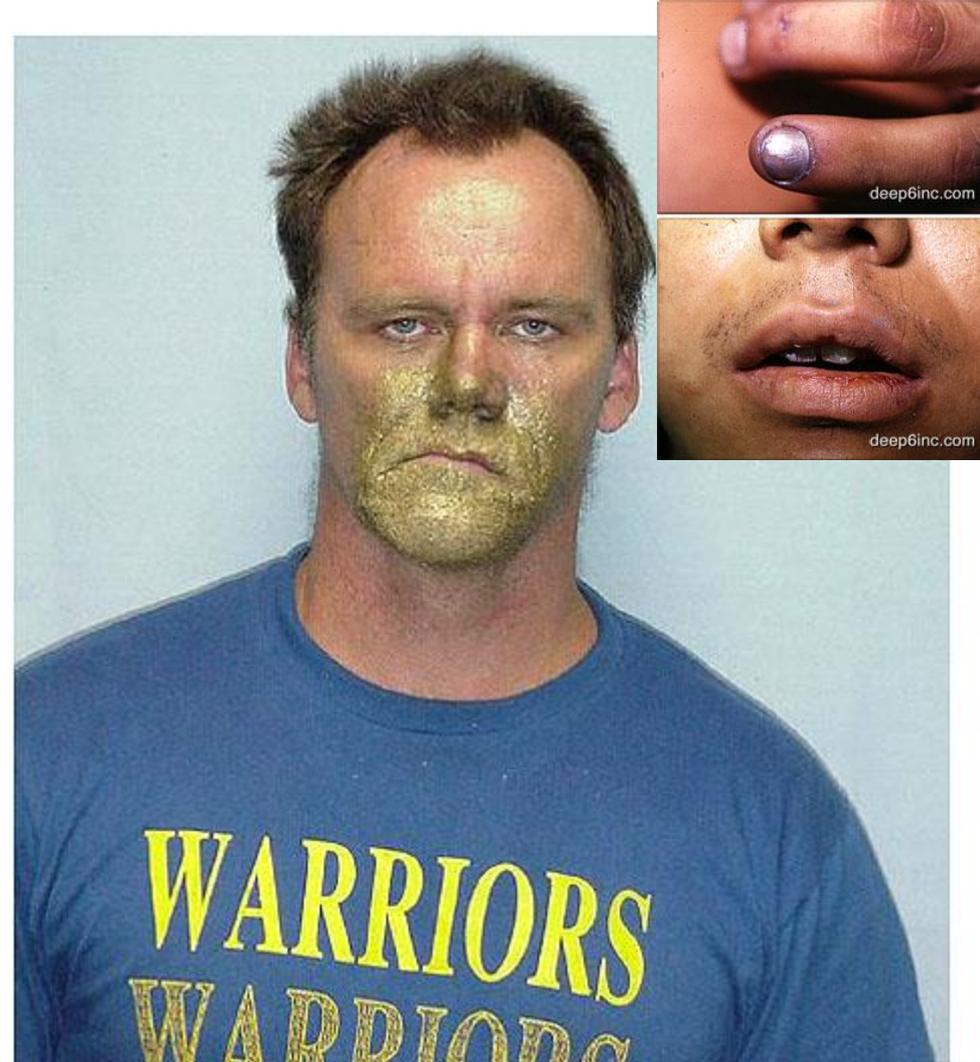


Inhalants cont...

Possible Signs & Symptoms:

- ☠ *Odor of inhaled substance*
- ☠ *Traces of substance around face, nose, mouth, and hands*
- ☠ *Bloodshot, watery eyes*
- ☠ *Confused, disoriented appearance*
- ☠ *Flushed face, possibly sweating*
- ☠ *Slow, thick, slurred speech*
- ☠ *Nausea and excessive salivation*
- ☠ *Antagonistic behaviors, argumentative*





One reason that gold and silver spray paints are more widely used than other paints is because they contain a higher concentration of toluene. Toluene is absorbed quickly by the brain, heart, liver, heart, and other organs.

Another reason is that users report it has a "fruiter" taste.





CANNABIS

Cannabis

Cannabis comes in several forms:

☠ *Marijuana*

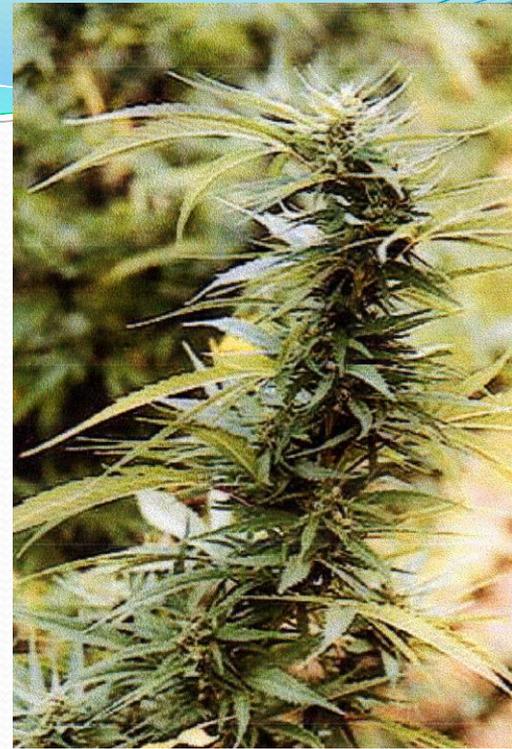
☠ *Hashish*

☠ *Hashish Oil*

☠ *K2 (synthetic marijuana)*

☠ *Edibles*

☠ *Marinol, otherwise known as Dronabinol, basically this is synthetic THC. It is a prescription drug used with cancer patients to suppress nausea*



Medical Marijuana



- Potency Levels
- Trends and potency levels are leaning toward Cannabis Overdoses.
- Legalization questions

Hash Oil

- **Hash Oil is a resinous substance made up of cannabinoids obtained from the *Cannabis* plant by solvent extraction.**
- **It is an extremely potent form of cannabis due to its high level of psychoactive compound per volume.**
- **One or two “BB” sized drops of the substance is equal to a single “joint” of marijuana.**

Hash Oil

- **Average THC concentrations from marijuana range from 8-12%.**
- **THC concentrations from Hash Oil can range from 30-90%.**
- **Range in color from a bright yellowish gold to a dark amber.**
- **Hash Oil usually sells between \$40-\$60 per gram.**
- **Street slang: oil, wax, shatter, honey, honey oil, dab**



CBD Oils

- **What is CBD Oil?**
- Some activists claim that CBD oil can be used as medicine. Manufacturers of CBD oil claim that CBD oil is high in Cannabidiol (or CBD) which may have some health benefit, according to some studies. However, there are no controls over what CBD oil manufacturers put in their product. Some “CBD Oil” products have been found to contain THC, which is the psychoactive ingredient in marijuana. Unlike real medicine which goes through an FDA approval process, CBD oil does not have FDA oversight.



Cannabis Oil



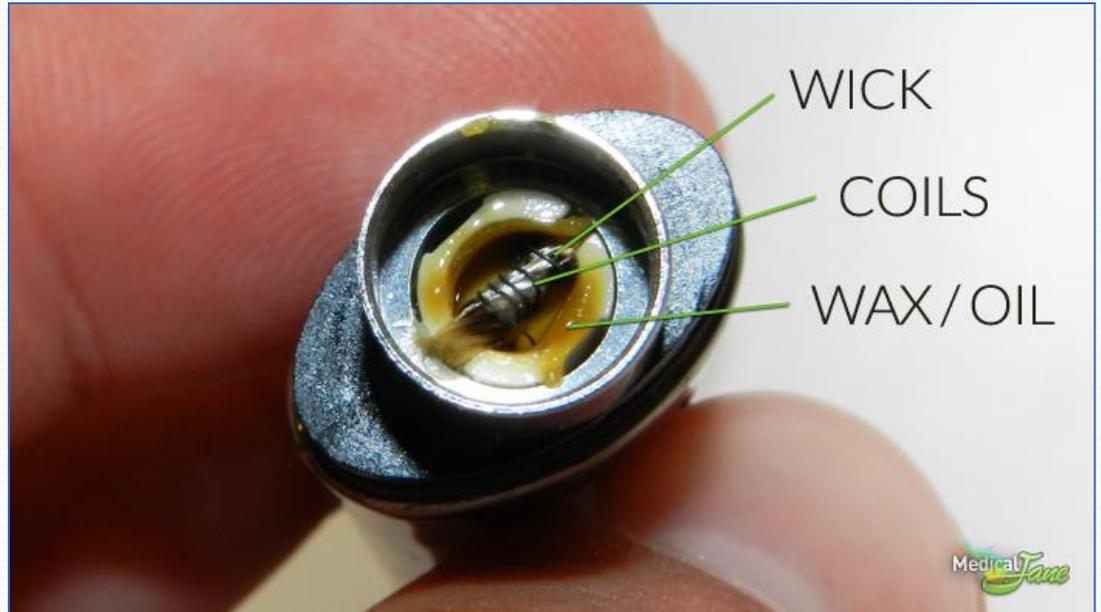
DABBING 101

- “Dabbing” is the most popular way to ingest Hash Oil.
- A small amount of dab, or Hash Oil, is “dabbed” onto a heated surface and the user then inhales the vapors.
- A basic Dabbing Kit includes the following items: butane hand torch, oil rig, nail, and dabber.



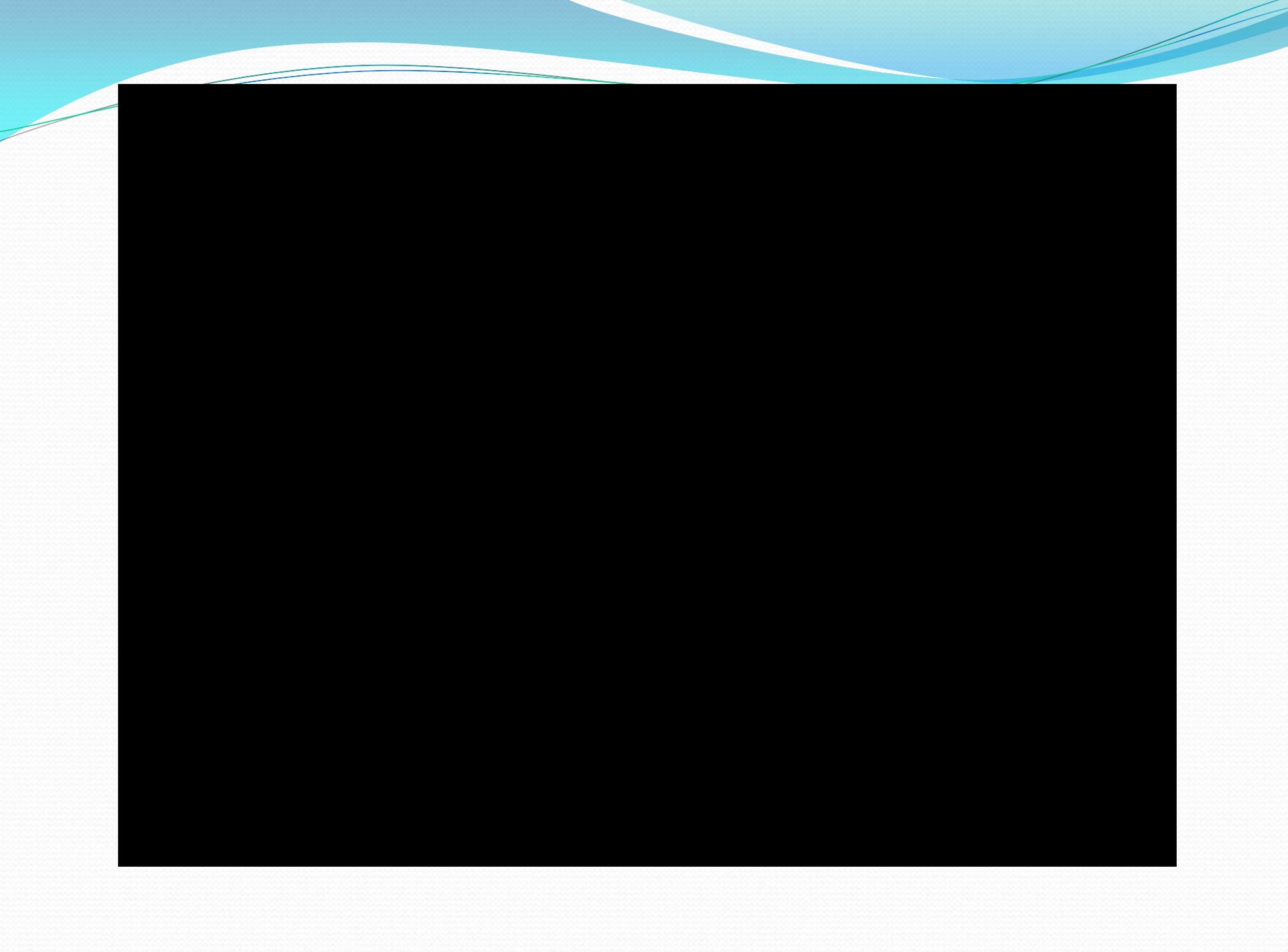
Vape Pens





JUUL E-Cigarette

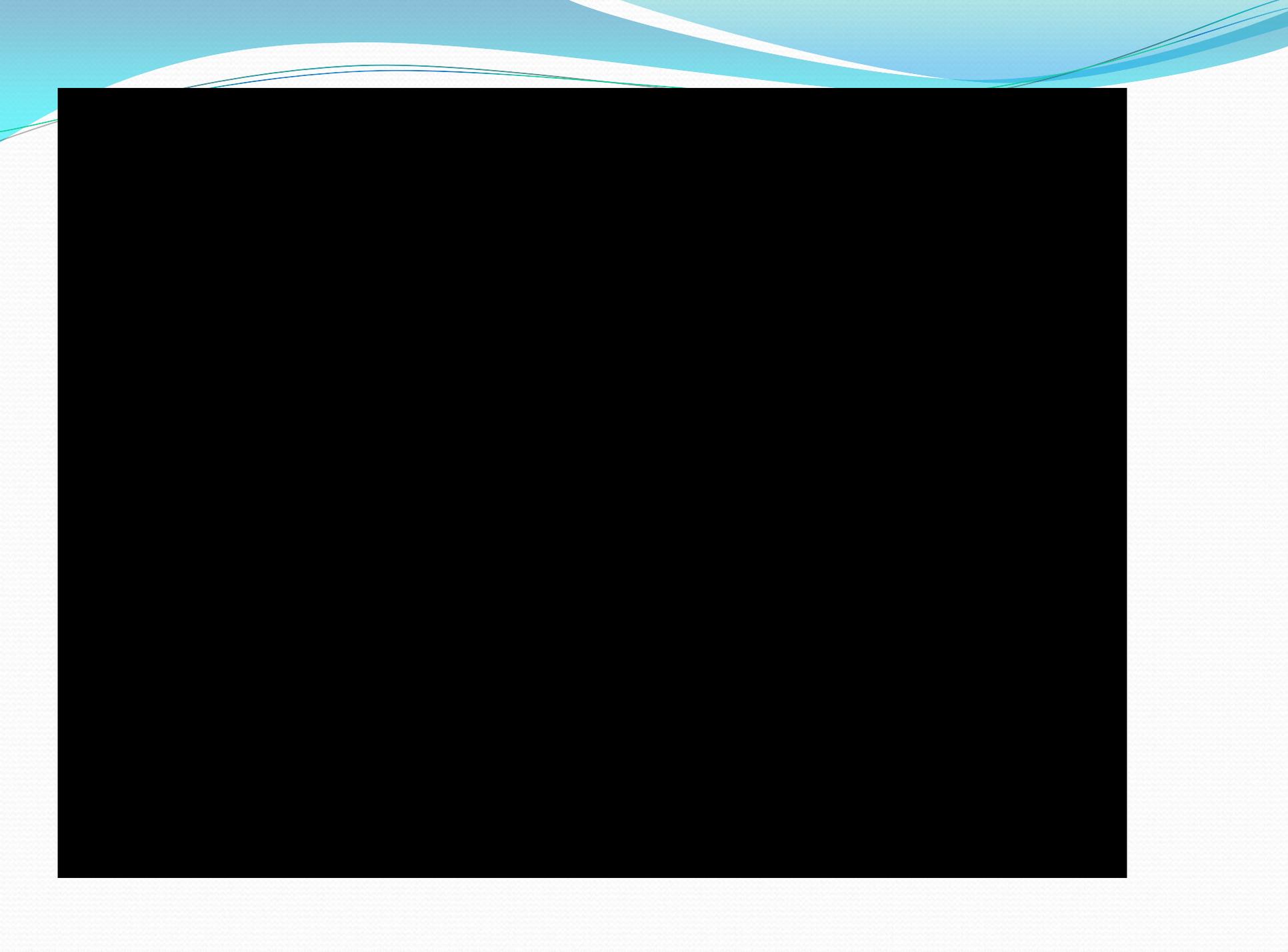






Hash Oil is usually stored or packaged in small plastic containers similar in size to Carmex Lip Balm containers. It is also found in small silicone containers, or folded up in paper.





Refined Cannabis Slang Terms

***710; 246; BHO;
Badder; Budder;
Butter; Dabs; Ear Wax;
Errol; Honey Oil; SAP;
Shatter; Wax***

Cannabis Chocolate



More Edibles



OVERDOSE CONCERNS?

**Amount taken*

**Accidental ingestion-who are they targeting with these products??*

Cannabis Inhalers



K2



Synthetic Cannabis Dangers

Severe agitation and anxiety.

Fast, racing heartbeat and higher blood pressure.

Nausea and vomiting.

Muscle spasms, seizures, and tremors.

Intense hallucinations and psychotic episodes.

Suicidal and other harmful thoughts and/or actions.

Cannabis



Signs and Symptoms:

Diminished inhibitions

Impaired perception of time and distance

Disorientation

Body tremors

Eyelid tremors

Marked reddening of the conjunctiva (reddening of the eye)

Odor or burnt marijuana on breath or clothing

Possible Marijuana debris in suspect's mouth



Signs of Ingestion



More Signs





Questions?

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