

Drug Awareness and Recognition

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Definition of *addiction*



- 1 : the quality or state of being addicted
addiction to reading
- 2 : compulsive need for and use of a habit-forming substance (such as heroin, nicotine, or alcohol) characterized by tolerance and by well-defined physiological symptoms upon withdrawal; *broadly* : persistent compulsive use of a substance known by the user to be harmful

■ Pharmacology

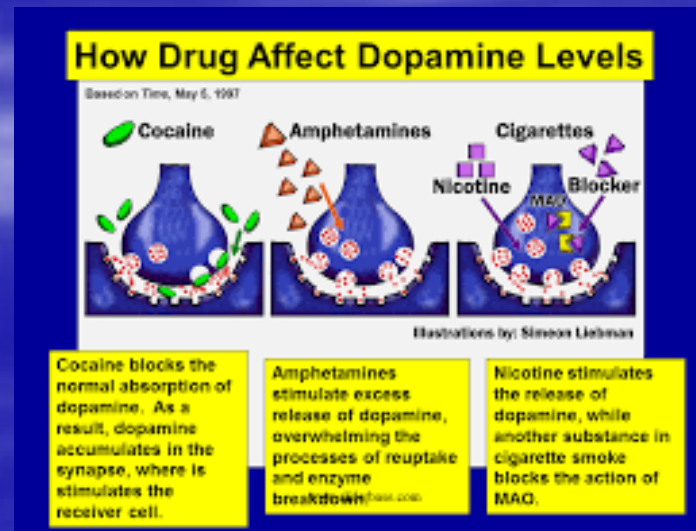
- Three main neurotransmitters are affected by these drugs; norepinephrine, dopamine, and serotonin. Increased concentrations of these transmitters in the neuronal synapse occur via increased release from vesicles through direct stimulation, blockade of pre-synaptic uptake and storage, reduced monoamine oxidase activity, and indirect glutamate pathway stimulation. Modification of the chemical structure can result in a dramatically altered pharmacologic profile. Methyl substitutions at the alpha carbon of the phenylethylamine structure result in strong stimulant, cardiovascular, and anorectic properties.

WHAT ???



English Please!!!!

All of these categories of drugs alter the senses by either slowing or stimulating concentrations of norepinephrine, dopamine, and serotonin in the neuronal synapse.



Effects

- Tachycardia
- Hypertension
- Agitation
- Seizures
- Pupil constriction or dilation
- Hallucinations
- Fast Pulse, Jittery?
- High Blood pressure
Red Faced?
- Edgy, mood swings ?
- Not just typical Colonic Tonic, but focal motor as well

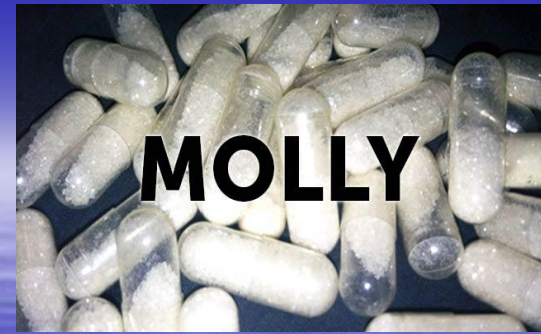
Ketamine

- Dissociative anesthetic use in the veterinary practice.
- Distorts perceptions and produces feelings of detachment from self and environment.
- Low dose; short attention, and impaired memory
- Higher dose; dreamlike states, delirium, and hallucinations.





Molly



- Diminished fear anxiety insecurity.
- Stimulation hyperactivity (uncontrollable urge to dance)
- Euphoria, arousal, mild psychedela.
- Currently under study for PTSD, although not approved yet.
- Users often possess “Pacifiers” ???
- Often mixed with other drugs:
- Users utilize Menthol products for cooling sensation while using the drug including : Vapor Rub, NyQuil, and lozenges.

So... what about the *Bath Salts* ?

- They Are ***NOT*** Bath Salts !
- ***Not Glass Cleaner or Plant Food!***
- ***They are marketed as such so they can be sold over the counter.***
- They are synthetic stimulants MDVP, (methylenedioxypropylvalerone) Mephedrone, or Methyline. (so far, they change the chemical compounds daily to keep the drug legal)
- Marked as “ Not for human consumption “

Names Anyone?

- Ivory Wave
- Vanilla Sky
- Bliss
- Legal
- Legal Cocaine
- Cloud 9
- White Dove

LAB
Certified

EIGHT BALLZ

Ultra Premium
Glass Cleaner

product does
NOT contain:
Mephedrone,
MDPV, or
Methylone.





Rock On
PURE ENERGY

18

NOT FOR SALE
TO ANYONE UNDER 18

DMAA (Geranium Extract)

Methylhexanamine

dimethylamylamine

- Natural CNS stimulant synthesized in 1944
- Geranamine used in fitness supplements and weight loss products
- Snorted like bath salts same psychotic symptoms



18

NOT FOR SALE
TO ANYONE UNDER 18

PUMP-IT!

NOT FOR HUMAN
CONSUMPTION

Why ?

Euphoric effect similar to Amphetamines or Cocaine

No test available to pick up use (abuse)

Easy to attain can be bought over the counter depending on what it is Marketed as.

What are the effects ?

Effects

- Euphoria
- Agitation
- Paranoia
- Hallucinations
- Suicidal Thoughts
- Psychosis

Side Effects

- Tachycardia
(fast pulse)
- High Blood Pressure
- Chest Pain
- Stroke
- Heart Attack
- Ongoing Suicidal thoughts,
sometimes for weeks !

Synthetic Marijuana

- Spice
- K2
- Legal Weed
- Incense
- Potpourri

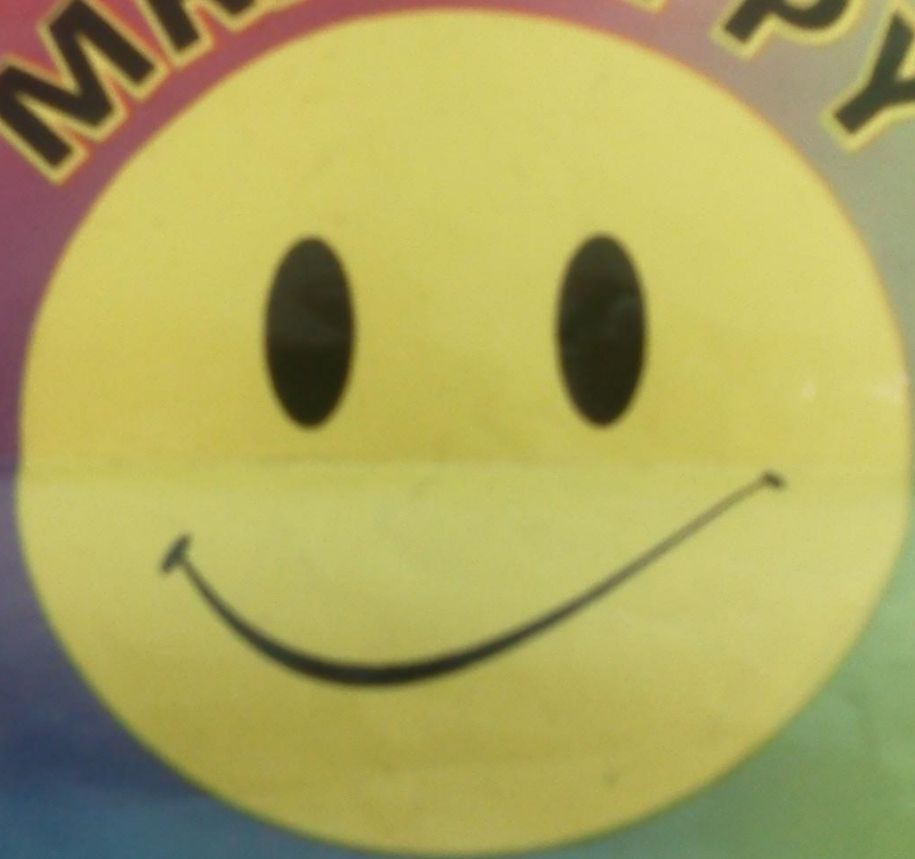
It is interesting to note synthetic marijuana
contains NO THC



CALIFORNIA DREAMS

4 grams

MR. HAPPY



POTPOURRI

BLUEBERRY



POTPOURRI

THIS PRODUCT DOES NOT CONTAIN ANY PROHIBITED INGREDIENTS
MUST BE 18 YEARS OF AGE TO PURCHASE

NOT FOR HUMAN CONSUMPTION

Distributed by S&S Wholesalers

www.buy-herbal-incense.com



**BARELY
LEGAL**

**HIGH
OCTANE**

100% CANNABINOID-FREE

NET WEIGHT 1.0g



Effects... Depends on what type of “Weed”

- Tremors
- Vomiting
- Described as a near death experience
- Paranoia & Agitation
- Panic Attacks
- Inability to concentrate
- Shaking similar to Parkinson's Disease
- Chemicals “sprayed” on cause nausea.
- Here it is again...WHY...
- Often see horrific hallucinations. Often causing harm to themselves or others.

So, Whats a Meth Lab???



Home Lab?



Smaller than you think



Methamphetamine

- Crank, Meth, Rush,
- Highly Addictive, first time users often have withdrawal symptoms prompting repeat usage.
- Intense rush, hyper stimulation of senses, Hypersexuality.
- Releases Dopamine causing intense rush, over time destroys Dopamine receptors making it impossible to feel pleasure.
- Chronic abuse leads to paranoia anxiety, extreme aggression, hallucinations and delusions.

Recognition

- Early signs

Acne appears

Sores not healing (small sores appear due to obsessive skin picking brought on by the hallucination of bugs crawling beneath the skin).

Skin loses luster and elasticity

Weight loss

May smell of ammonia, cat urine, or rotten eggs from manufacturing process.

- Late signs

Drastic change in physical appearance making person look much older.

Meth-Mouth: broken discolored and rotting teeth. Users grind their teeth obsessively and binge on sugary foods for energy. Obsession for drug consumes person often leading to neglect of personal hygiene.

Most do not recognize changes as they still feel confident and attractive.



AUGUST 2012



DECEMBER 2012

Faces of Meth



THE HORRORS OF METHAMPHETAMINES

appears or worsens. Obsessive skin-
g often causes meth users' faces to be
d in small sores and scarring - the
of a common sensory hallucination of
crawling beneath the skin.

AL MUSCULATURE AND FAT

like other stimulants, suppresses
te and can lead to undernourishment
long periods without eating. Over time,
dy begins consuming muscle tissue
cial fat, giving users a gaunt, hollowed-
pearance.

HANDGUMS

"Mouth" is caused by several factors;
enamel is dissolved by the harsh
cals of the drug, the blood vessels
ned in healthy gums and teeth shrink,
sing the rate of decay, the production of
diminishes, allowing harmful acids to
damage the mouth, cravings for
y foods increases with meth use, oral
e is typically neglected while high, and
tooth-grinding is an additional side
of the drug.

DEASING ESTIMATED AGE

ombination of skin issues, facial fat and
e loss, hygiene neglect and increased
decay lead to the appearance of
erated aging, sometimes shockingly



3 AGE: 25



2 AGE: 25



1 AGE: 23

Methamphetamine Users

Addiction touches nearly every family, ravaging physical and mental health, relationships, and personal finances. Mothers, fathers, brothers, sisters, daughters and sons. No one is immune to the frightening long-term impact of hard drug abuse. What follows is a sobering depiction of REAL individuals who've fallen victim to the temptation of drug use - in this case, **Methamphetamine** - whose devastating effects are all too apparent.





Dangers of Meth

- Hyperthermia (high temperature) Stroke
- Formication (sensation of flesh crawling)
- Rhabdomyolysis (breakdown of muscle) leading to kidney damage.
- Cardiac arrest (tachycardia) (hypertension)

So... Why is meth so popular???

- Cheap!
- Ease of manufacturing (labs can be set up anywhere, even in cars)
- Easy to get ingredients red, white & blue method
- Red – phosphorous (road flairs)
- White – ephedrine, pseudoephedrine (allergy medicine)
- Blue- Iodine
- “one pot method” a couple of pseudoephedrine tablets, a 2 liter bottle and approximately 30-45 minutes.
- When discovered labs are classified as a hazardous material scene, and cost Big \$\$\$ to clean up.

Simple To Manufacture



Easy to find ingredients



A photograph showing various items laid out on a white surface outdoors, likely evidence or supplies. The items include:

- A large white jug with a red cap.
- Several clear plastic bottles, some labeled "FIJI".
- Three white plastic containers with yellow labels.
- Four boxes of Aleve Extra Strength Swiss-Red.
- Two bags of Gold Peak Instant Noodle Soup.
- A box of Reynolds Wrap Heavy Duty aluminum foil.
- A roll of clear plastic tubing.
- A red metal canister.
- A black power cord.
- A State Highway Patrol Ohio logo in the bottom right corner.

The background consists of gravel and some dry leaves.

Portable



[illegible]

Greig



The Opiate Family



Heroin??

Really??

- Snorted, Smoked, or injected.
- Recent up swing in usage especially in more affluent neighborhoods. (my kids a what?)
- Most addictive drug available (23% of users become dependent). Withdrawal symptoms begin 4-6 hours after last use and can last for weeks or months.
- Can be the 1st or last drug for a habitual user.

How does Heroin work?

- Binds to the opiate receptors in the brain converting it to morphine, especially those involved in perception of pain & reward.
- IV users report a “rush” (surge of euphoria), dry mouth, heavy extremities, “cloudiness” of mind. User then goes “under the nod” periods of drowsy and wakeful states. Pinpoint pupils
- All users risk respiratory depression, as heroin (and all opiates) suppresses respiration.

What to look for...

Drug use clues



Drug Kit



"Packaged" Drugs (Heroin)

Kicking the heroin habit...

Kind of ...

- Methadone - used for 30 years, most effective , also most addictive. 1 Drug problem precipitates another...
- Buprenorphine - less risk for overdose, and fewer withdrawal effects. Not as strong addict more likely to relapse.
- Naltrexone – blocks opiate receptors, rendering drug useless. For use after withdrawal treatment.

100X Stronger than Morphine

**AMERICA'S HEROIN
EPIDEMIC IS BEING
OVERTAKEN BY ANOTHER
DEADLY DRUG ADDICTION:**

FENTANYL

2 mL
FENTANYL
Injection, USP
100 mcg Fentanyl (100 mcg/mL)

100X Stronger than Fentanyl



Marijuana

Cannabis

Tetrahydrocannabinol

- Pot, weed, hemp, Chronic....
- Used in the treatment of Glaucoma (yeh right)
- Also cancer treatment
- Most frequently abused drug statistically

Effects of THC

- Bronchodilator
- Dilated Blood vessels
- Release's Dopamine
- Dry mouth
- Intense Hunger / thirst
- Breathing deepens
- Bloodshot Eyes??
- Producing Euphoria
- Munchies...
- After Euphoria passes may feel sleepy or depressed
- Anxiety or Panic

Stripping (Butane Oil)



Benzodiazepines

- Xanax
- Klonopin
- Ativan



Huffing

- Inhaling seemingly mundane products...
- Precursor to future Drug abuse!!!
- Dust Off... computer cleaner #1 abused
- White Out... bet ya have a bottle in your desk...
- 2nd stage huffing paint (gold is preferred)
- Glue, thinners, gasoline.
- Whippets... Whip-Hits

Abused Inhalants

- Solvents: Thinners, gasoline, contact cleaner, felt tip markers, correction fluid.
- Aerosols: Hair, Deodorant sprays, Spray Paints, Computer Cleaner
- Gases: Butane Lighters, Propane, Whip Cream dispensers. Medical: nitrous oxide, chloroform.
- Nitrites: Poppers, sexual enhancers. Just like Bath salts, marketed as “other “ products: liquid aroma, leather cleaner, video head cleaner. Contain Butyl or Amyl nitrite.

How do they work?

Most work

by displacing air in the lungs inhalants deprive the body of oxygen, causing a condition known as Hypoxia. The lack of oxygen can damage cells brain cells are especially sensitive to oxygen deprivation.

Not My Kid

Adolescents

12-15 most common
abused inhalants are:

Glue, Shoe polish,
Spray Paints, Lighter
Fluid

&

Gasoline

Teens

16-17 most common
abused inhalants are:
Whip-Hits, and Nitrous
Oxide.

Nitrites are more likely to
be abused by adults.

Signs & Symptoms

- Unusual odors from individual
- Seeming distracted from current activities
- Not staying focused
- Tremors
- Dilated Pupils
- Cuts around mouth
- Cyanosis (blue or pale lips, discolored nailbeds)
- Colors on face nares “metal flakes”

High Dose Benadryl ?

LIFE WITH ALLERGIES: BENADRYL

I FEEL A BIT OF A TICKLE IN MY SINUSES. I'D BEST TO TAKE A BENADRYL™ LEST MY ALLERGIES BECOME WORSE.

CollegeHumor™



Benadryl

Because you can't sneeze when you're in a coma.

Syrup/"Purple Drank"

- Prescription cough syrup with promethazine and codeine.
- Dextromethorphan OTC cough medicine, (large dose) can cause effects similar to Ketamine.
- Easy to get, easily overlooked by parents

EXUBERANCE POWDER²

LAB
CERTIFIED!

AMPED

TM

Never lets you down!

.5g

LADYBUG ATTRACTANT

SOOO.....

What's Next ???

?????

We Don't Really know...