

MCLAREN 2019 OPIATE CONFERENCE



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AGENDA

- Review Michigan trends.
- Identify paraphernalia.
- Controlled Substance Schedule (CSA)
- Street Drug Weights
- Marijuana
- Opioid Crisis
- Heroin
- Cocaine/Crack
- Prescription Drugs
- Hallucinogens
- Methamphetamine
- Tianeptine
- Kratom

Michigan Trends

- What teens and young adults in Michigan are commonly abusing:
 - Marijuana.
 - Hallucinogens (Acid, Mushrooms, Peyote).
 - Molly/MDMA (Ecstasy).
 - Prescription medication.
 - Heroin.
 - E-cigarettes with marijuana blots/dabs in them (no smell with little residue).

Why are drugs addictive?

- Drugs cross the brain barrier and cause the release of neurotransmitters:

Dopamine: feeling of reward and pleasure.

Serotonin: sense of emotional stability.

Norepinephrine: stimulates the arousal drive.

Effects on the brain

- All stimulants (narcotics) release some dopamine in the brain.
- Drugs such as cocaine and methamphetamine release much larger amounts.

Cocaine releases 400% more than normal.

Meth release 1500% more than normal.

DRUG PARAPHERNALIA



Rig for injecting drugs

Drug Paraphernalia (Cont'd.)



Common syringe and cap



Crack pipe



Chore Boy or Brillo pad



Pipes and bongs
for marijuana



Rolling papers



Marijuana bowls



Cough syrup containing DXM*
*Dextromethorphan

Corner Bags



- Crack
- Meth
- Marijuana
- Cocaine
- Pills

Digital Scales



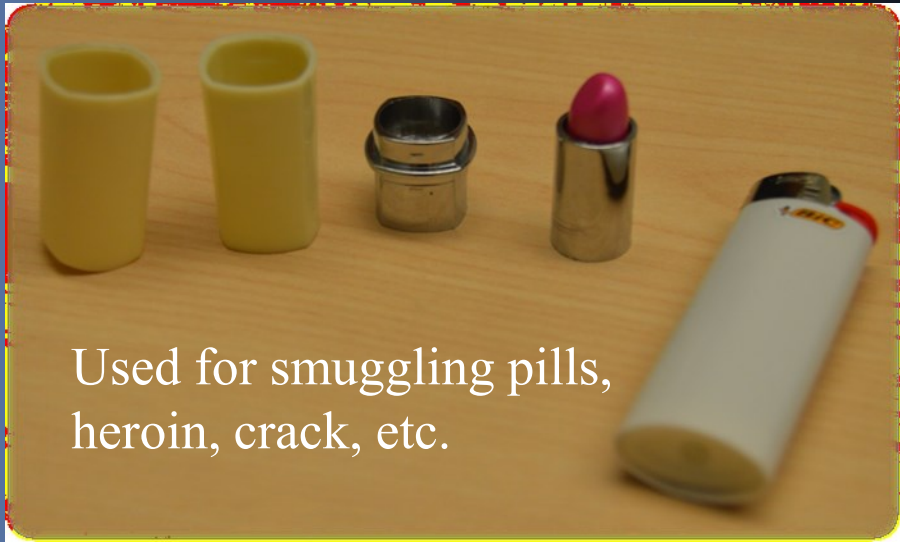
- Miniature electronic scales are used by users/dealers when weighing drugs and other illegal substances to sell. Scales may look like an iPhone, computer mouse, or spoon.

Crack Pipes



- Convenience stores often sell roses in inexpensive glass tubes. They are known for being used to smoke crack. They can also be used for smoking methamphetamine, cocaine, and heroin. They are usually found with Chore Boy which is used as a filter or screen when smoking the drugs.

Stash Items



Marijuana Wax Containers



Vaporizers/E-Cigarettes



- E-cigarettes, which heat a nicotine solution to create a vapor instead of burning tobacco, have passed traditional cigarettes in popularity among teenagers.
- E-cigarettes, sometimes also known as vaporizers, can also be used to smoke illegal substances like marijuana.

Questions?

Controlled Substance Schedules

- Drugs and other substances that are considered controlled substances under the Controlled Substances Act (CSA) are divided into five schedules.
- Substances are placed in the respective schedule based on the current medical use and abuse potential

Schedule I

- Substances in this **schedule** have no currently accepted medical use in the United States, a lack of accepted safety for use under medical supervision, and a high potential for abuse.
 - Heroin
 - LSD
 - Marijuana
 - Peyote
 - Ecstasy

Schedule II

- Substances in this **schedule** have a high potential for abuse which may lead to severe psychological or physical dependence.
 - Cocaine
 - Dilaudid
 - Methadone
 - Demerol
 - Oxycontin
 - Percocet
 - Fentanyl
 - Morphine
 - Opium
 - Codeine
 - Ritalin
 - Tianeptine

Schedule III

- Substances in this **schedule** have a potential for abuse less than substances in **Schedules I or II** and abuse may lead to moderate or low physical dependence or high psychological dependence.
 - Vicodin
 - Tylenol with codeine
 - Suboxone
 - Ketamine
 - Testosterone

Schedule IV

- Substances in this **schedule** have a low potential for abuse relative to substances in **Schedule III**.
 - Xanax
 - Soma
 - Klonopin
 - Valium
 - Ativan

Schedule V

- Substances in this **schedule** have a low potential for abuse relative to substances listed in **Schedule IV** and consist primarily of preparations containing limited quantities of certain narcotics.
 - Examples of **Schedule V** substances include: cough preparations containing not more than 200 milligrams of codeine per 100 milliliters or per 100 grams (Robitussin AC, Phenergan with Codeine), and ezogabine.

DRUGS

- Street Drug Weights
- Marijuana
- Opioid Crisis
- Heroin
- Crack/Cocaine
- Methamphetamine
- Prescription Drugs

Street Drug Weights

- 1g = 1 gram
- 1/8 ounce “8 Ball”= 3.5 grams
- 1/4 ounce = 7 grams
- 1/2 ounce = 14 grams
- 1 ounce “Zip”= 28 grams
- 1 pound = 16 ounces or 454 grams
- Teener (1/16 ounce) = 1.75 grams
- Elbow = 1 pound MJ
- QP = 1/4 pound of MJ
- Key/Brick/Kilo/Bird = 1000 grams/2.2 pounds
- Pack = .1 gram
- Bundle = 1 gram
- Sandwich bag = 1 gram

Marijuana

Schedule I – no currently accepted medical use and a high potential for abuse



08.25.2010





08.25.2010



Possession with Intent to Deliver



Indoor Marijuana Grow



Outdoor Marijuana Grow

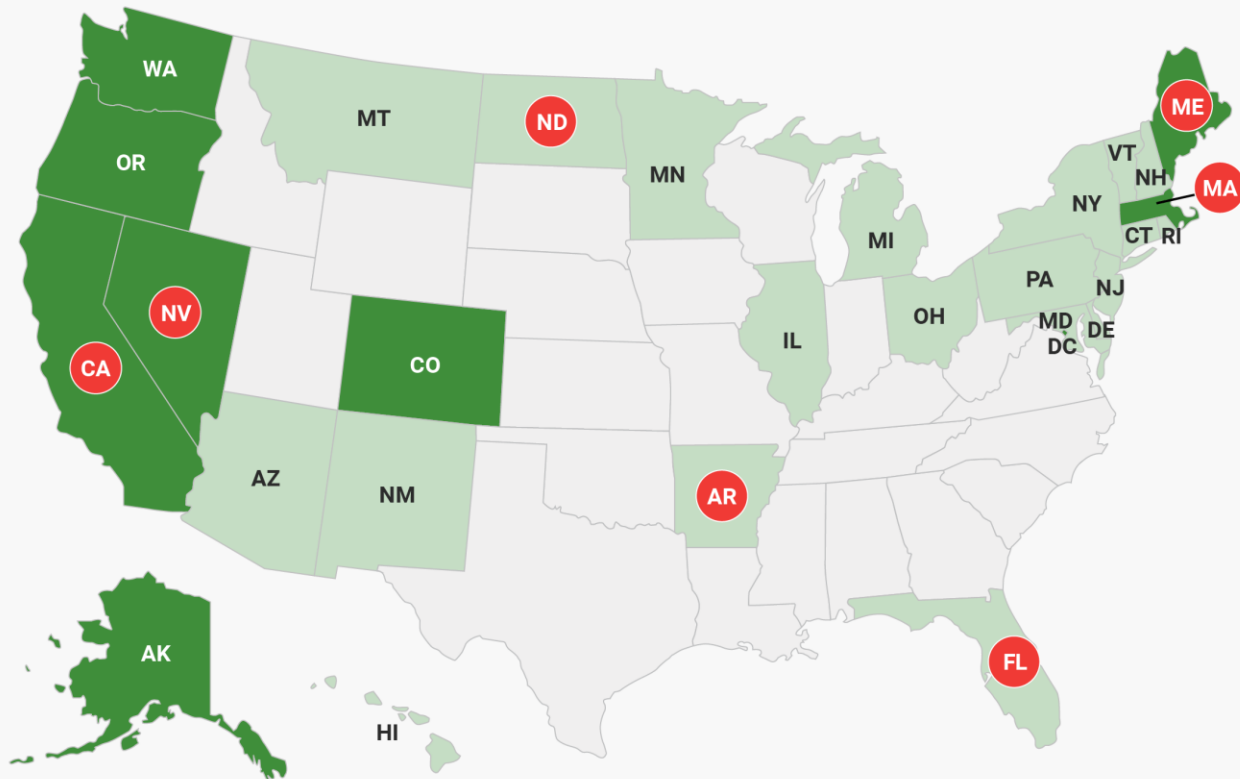


Michigan Marijuana Acts

1. Michigan Medical Marijuana Act (**MMMA**)
2. Michigan Medical Marijuana Facilities Licensing Act (**MMFLA**)
3. Michigan Recreational Marijuana Law

STATES WHERE MARIJUANA IS LEGALIZED

■ Legalized marijuana ■ Legalized medical marijuana ● Legislation passed Nov. 2016



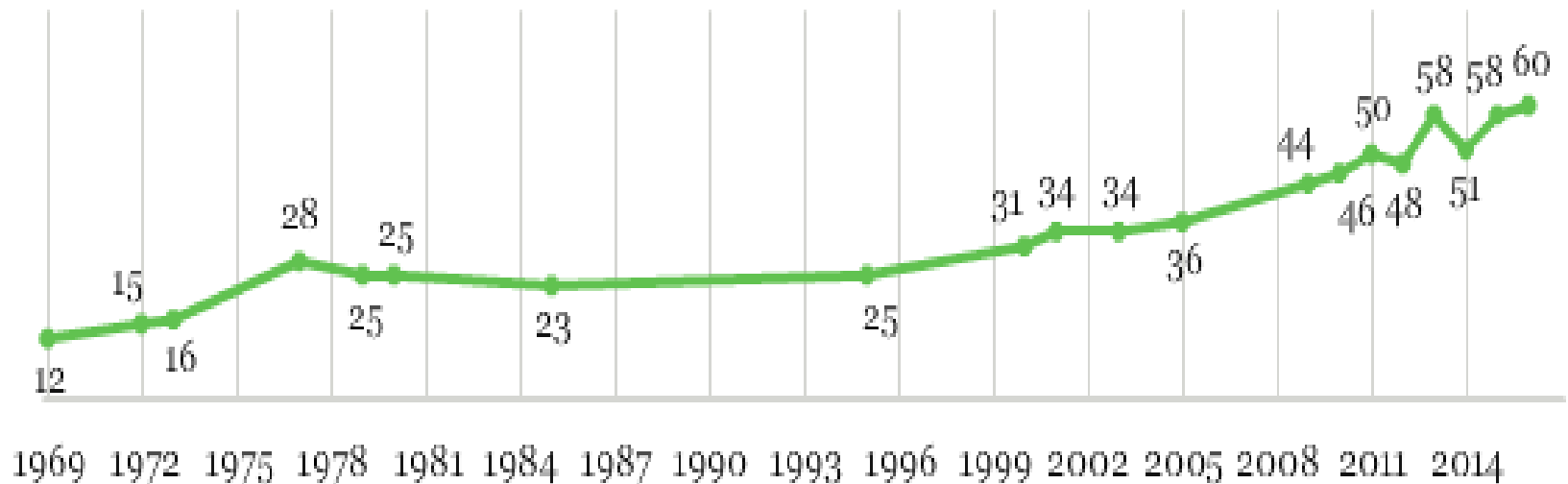
SOURCES: Politico; Reuters

Robinson, Melia, and Skye Gould. "This Map Shows Every State That Legalized Marijuana on Election Day." *Business Insider*, 9 Nov. 2016.

Americans' Views on Legalizing Marijuana

Do you think the use of marijuana should be made legal, or not?

■ % Yes, legal



GALLUP'

Swift, Art. "Support for Legal Marijuana Use Up to 60% in U.S." *Gallup.com*, Gallup Inc., 19 Oct. 2016.

Michigan Medical Marihuana Act

- Voter-approved ballot initiative
- Patients may grow up to 12 plants and possess a limited quantity of processed marihuana for their sole use.
- Caregivers may grow marihuana for themselves or their qualifying patients.
- No more than 5 patients, 12 plants per patient, and 12 plants for themselves.

Modifications to Michigan Medical Marihuana Act

- HB 4210
- Passed House of Representatives 10/7/15 on a 96-10 vote.
- Passed Senate 9/8/16 on a 28-9 vote.
- Changes made in Senate, so concurred with on a 93-12 vote.
- Signed by Governor Snyder on 9/21/16.
- Public Act 283 of 2016.

- Revised definition of “usable marihuana” to include marihuana-infused products (medibles).
- Defines “marihuana equivalents” for purposes of weights of marihuana-infused products.
- Establishes a rebuttable presumption that a weight listed on the packaging or manifest is accurate.
- Changes improper transportation of medical marihuana to a civil infraction.

- Allows for the transportation of marihuana during the course of business under the MMFLA.
- Prohibits the use of butane to extract marihuana resin in a public place, motor vehicle, residential structure (including curtilage), or anyplace else which demonstrates a failure to exercise reasonable care for the safety of others.
- Adds snowmobiles and ORV's to vehicles which may not be operated under the influence of marihuana.

MMFLA

- Created the Medical Marihuana Licensing Board within the Department of Licensing and Regulatory Affairs (LARA).
- Gave the board authority to regulate the activity and operation of medical marihuana facilities within the state.
- The board is comprised of five members appointed by the governor.
- Created the Marihuana Advisory Panel within LARA.
- Law was effective in December of 2016, with 360 days given to begin accepting applications.
- On December 15, 2017 LARA will begin accepting applications.

MMFLA Licenses

■ Grower

- Licensee that is a commercial entity that cultivates, dries, trims, or cures and packages marijuana for sale to a processor or provisioning center.
- Must be located in Michigan.
- Class A – Up to 500 plants.
- Class B – Up to 1,000 plants.
- Class C – Up to 1,500 plants.
- Average grow period for indoor grows is 3-4 months
- Can produce 3 grows per year
- 1,500 plants = 1500 pds
- 1,500 pds x 3 grows = 4,500 pds per year
- Dispensaries now pay \$2,000 per pound
- 4,500 pds x \$2,000 per pound = \$9,000,000 per year

■ Processor

- Licensee that purchases marihuana from a grower and extracts resin from the marihuana or creates a marihuana-infused product for sale and transfer in packaged form to a provisioning center.
- May only purchase from a grower.
- May only sell to a provisioning center.

■ Secure Transporter

- Licensee that stores marihuana and transports marihuana between marihuana facilities for a fee.
- Not authorized for transport to patients or caregivers.
- The only way allowed by this public act to transfer marihuana between the various licensees is through the use of a secure transporter.
- To be eligible for this license, the applicant and all investors must not have an interest in any of the other license types/facilities, and must not be registered patients or caregivers under the MMMA.

■ Secure Transporter (cont.)

- Driver must have chauffer's license *issued by this state*.
- Any employee having custody of marihuana or money related to marihuana cannot have a felony conviction, or a release from incarceration on a conviction thereof, or a conviction for a misdemeanor involving CS within the last five years.
- Vehicle shall be operated with two people, and at least one shall remain with the vehicle at all times during transport of marihuana.
- Route plan and manifest shall be entered into the tracking system.

■ Secure Transporter (cont.)

- Secure transporting vehicle shall not bear markings indicating it is carrying marihuana.
- Secure transporters are subject to *administrative inspection* by law enforcement at any point during transport.
- A copy of the route plan and manifest shall be carried in the vehicle, and shall be presented to law enforcement upon request.

■ Provisioning Center

- Licensee that purchases marihuana from a grower or processor and sells, supplies, or provides marihuana to registered qualifying patients, or to registered qualifying caregivers.
- A non-commercial location used by a caregiver to assist a qualifying patient through the MMMA is not a provisioning center.

■ Safety Compliance Facility

- Licensee that receives marijuana from a marijuana facility or caregiver and tests it for contaminants and for tetrahydrocannabinol and other cannabinoids.
- To be eligible for this license, the applicant and all investors must not have an interest in any of the other license types/facilities, and must not be registered patients or caregivers under the MMMA.
- Must maintain a space inaccessible by the public and retain at least 1 staff member with a relevant advanced degree in a medical or laboratory science.

■ Licensure ineligibility

- Felony conviction in the in the past 10 years.
- Misdemeanor in the past 5 years involving a controlled substance, theft, dishonesty, or fraud.
- Knowingly submitting a false information in an application.
- Member of the board.
- Failure to demonstrate an ability to maintain adequate premises liability and casualty insurance.
- Holding elective office, member or employee of a regulatory body, or employee of a governmental unit.
- Resident of MI for less than 2-year period immediately preceding application (individuals only).
- Not in compliance with Section 205(1) (authorizing local ordinance).
- Fails to meet other criteria established by rule.

■ Fees and taxes

- Application fee – offsets cost of background investigation.
- Regulatory assessment – covers operational costs of LARA, MSP, Attorney General, and Treasury.
- 3% excised tax – collected by provisioning centers on gross receipts.
 - 25% to municipalities.
 - 30% to counties.
 - 5% to counties for county sheriffs.
 - 30% to first responder presumed coverage fund.
 - 5% to MCOLES for training local law enforcement officers.
 - 5% to MSP.

MMFLA Seed-to-Sale Tracking System

- House Bill 4287
- Passed House of Representatives 10/7/15 on a 99-7 vote.
- Passed Senate 9/8/16 on a 27-10 vote.
- Changes made in Senate, so concurred with on a 85-20 vote.
- Signed by Governor Snyder on 9/21/16.
- Public Act 282 of 2016.

- Requires LARA to establish a statewide monitoring system for use as an integrated marijuana tracking, inventory, and verification system.
- The system will track all marijuana that is grown, processed, transferred, stored, or disposed of under the MMFLA from seed-to-sale.
- Must receive and integrate information from third-party systems used by licensed facilities.
- Contract awarded to Franwell Inc. to utilize the METRC system.

- Must validate that a registry card is current and valid.
- Determination of whether a sale will exceed the permissible limit.
- Tracking test results and ensuring all products have been tested prior to sale.
- Providing LARA and other state agencies with access to the information they are authorized to access.
- Providing law enforcement agencies with access to only the information in the database necessary to validate that an individual possesses a current and valid registry card.

- Emergency Administrative Rules

Established 4 Dec 17

Shall remain effective for 6 months

Bureau of Medical Marijuana Regulation (BMMR) states the rules outline requirements to operate as a grower, processor, secure transporter, provisioning center, and safety compliance facility

<http://www.michigan.gov/lara/0,4601,7-154-79571-453904--,00.html>

MICHIGAN RECREATIONAL MARIJUANA LAW

When will it take effect?

The Michigan Department of State will certify the vote count, which usually takes 30 days. Ten days after certification it becomes law, which will be in mid-December 2018.

Law allows the following:

- 21 + can possess, use, purchase, transport 2.5 oz
- 21 + to possess, store, and process 10 oz and cultivate 12 marijuana plants
- Allows a person 21+ to assist another person
- Allows a person to give away or “transfer” without remuneration up to 2.5 oz

What is prohibited:

- Operate a vehicle while under influence of marijuana
- “Transfer” marijuana to person under 21
- Any person under 21 to possess, consume, cultivate marijuana
- Separation of plant resin by butane extraction in any public place, motor vehicle, or residential structure
- Consuming marijuana in public place or prohibited by owner
- Cultivating marijuana plants if visible from a public place or outside of an enclosed area which is locked
- Consuming marijuana within passenger area of a vehicle on a public way
- Possessing marijuana on school grounds
- Possessing more than 2.5 oz of marijuana UNLESS excess is stored in a container/area with locks

Marijuana Questions?

OPIOIDS

Opioids are narcotics that act on opioid receptors to produce morphine-like effects

- Opioids are synthetic – Oxycodone, Hydrocodone, Fentanyl, Percocet
- Opiates are natural – Opium, Codeine, Morphine, Heroin

Opioid Strategy

Pain Management (Medical need)

Prescription Control – (Doctor Shopping)

Street Drugs

Heroin – Mexico

Fentanyl - China

Overdosing - Narcan

Treatment Options – Methadone/In-patient

Law Enforcement – Stop it before it gets here

Public Education/Awareness

OPIOID OVERDOSES

Total number of opioid overdose deaths in MI increased from **99** cases per year in 1999 to about **1699** cases in 2016.

For all illicit drug classes overdose; the number of deaths in 2016 in Michigan was **2,356** deaths, more than the number of deaths caused by car accidents

Cost of Opioids

- The prescription opioid misuse alone costs the U.S about **78.5 billion** dollars a year
 - Healthcare
 - mental health needs
 - addiction treatment
 - lost productivity
 - criminal justice involvement.⁽²⁾

Heroin

Schedule I – no currently accepted medical use and a high potential for abuse

Heroin is made from the resin of poppy plants. The milky sap (like opium) is removed from the pod of the poppy flower. The opium is refined to make morphine and then further refined to make different forms of heroin.



Cutting Agent



- MiraLAX is a laxative solution
- Easily obtained
- Powder
- Used as a cutting agent due to color and stinging sensation

Heroin Packaging

- Lottery tickets
- Wax paper
- Wax paper adds
- Corner baggies



Heroin Weights and Pricing

Pack/Point – 1/10 gram (\$20)

Bundle – 10 packs (\$180-\$200)

1/2 gram – (\$65-\$70)

1 gram – (\$120-\$140)

Eight ball – 3.5 grams

Quarter – 7 grams

Half – 14 grams

Ounce – 28 grams

Heroin Trends

- Heroin making comeback among teens
- Heroin commonly cut with fentanyl
- Snorting/shooting
- Heroin purchased is actually fentanyl

Fentanyl – “Fire” or “Flame”

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



- Fentanyl – A fast acting analgesic and sedative that is sometimes abused for its heroin type effect.
- Schedule II narcotic
- Most potent opioid available for medical treatment
 - 50 – 100 times more potent than morphine
 - 30 – 50 times more potent than heroin
- Ingestion of small doses, as small as 0.25mg can be fatal

ANGEL PROGRAM

- Applicants contacted on the street who request help are directed to go to the post during normal working hours
- Applicants can turn over narcotics and will not be charged
- Applicants will be searched (Consent) and ensured that MSP will assist in getting help
- Applicants will be screened for the following disqualifying factors:
 - Felony warrants
 - Registered sex offender
 - Applicant displays aggressive or potentially aggressive behavior
 - Applicant is under age 18 and doesn't have parent consent
- Angel volunteer will be contacted
- Angel will make contact with treatment centers to find support

Cocaine/Crack

Schedule II – high potential for abuse but can be administered by a doctor for legitimate medical uses.

Cutting Agents



- Inositol is designed as a dietary supplement
- GNC most common found as it is cheapest
- Powder or tablets
- Used as a cutting agent due to color and stinging sensation

BNT-15-17



BNT-15-17



Crack – Cocaine Base

Street name: hard, rock, base, ball, cookies, cakes, crumbs

Smoked

Crack not soluble. Can be hidden in mouth



Cocaine HCL to Cocaine base (Crack)

1. Cocaine powder is mixed with baking soda
2. Water is added to mix
3. Mixture is heated
4. Baking soda reacts with hydrochloride, forming free base cocaine and carbonic acid
5. Once carbonic acid is converted to carbon dioxide, it evaporates with the water leaving only free base cocaine.
6. Cocaine base (crack) is smoked = quicker high





3.1 g



6.2 g



3.3 g



3.2 g



3.2 g

Prescription Drugs

Prescription drug abuse is a public health epidemic



>16,500

Every year more than 16,500 people in the US die from prescription opioid-related drug overdose, more than from heroin and cocaine combined



The more than 4-fold increase in opioid overdose deaths parallels the 4-fold increase in sales of these drugs over the past decade



>\$70B

The direct health care costs of prescription drug abuse exceeds \$70 billion a year

“Pharmageddon”

Pharmageddon is "the prospect of a world in which medicines and medicine produce more ill-health than health, and when medical progress does more harm than good" -- and it is no longer a prospect but fully upon us. Those most at risk from dying from this new drug crisis are people you would least expect; the analysis revealed the death toll is highest among people in their 40s, but all ages, from teenagers to the elderly, and all walks of life are being affected. In fact, prescription drugs are now the preferred "high" for many, especially teens, as they are typically used legally, which eliminates the stigma of being a "junkie."- *The Baltimore Sun*

Where are they coming from?

- Pharm Parties
- Friends/Family
- Theft
- Dr. Shopping
- Drug Dealers
- Internet
- Legal Prescription



WebMD Identifying Tool

webmd.com/pill-identification/default.htm

Blank Page | 2013 Presentations | Nati... | Us response thomas_frie... | Us response thomas_frie... | Inbox (665) - cstefanikcd... | WebMD Pill Identification - W... x

Symptoms | Doctors | Health Care Reform

Health A-Z | Drugs & Supplements | Living Healthy | Family & Pregnancy | News & Experts

WebMD Home > Pill Identifier

Drugs and Medications Center >

- Find a Drug
- My Medicine
- Pill Identifier
- Interaction Checker
- Drugs & Medications A-Z
- Drugs & Medical Conditions
- Latest Drug News
- Drugs Information on Mobile
- Find a Vitamin
- Find a Pharmacy
- Medication Evaluator

Common Drugs

- Adderall
- Celexa
- Cipro
- Cymbalta
- Flexeril
- Hydrocodone
- Lexapro
- Lisinopril
- Medrol
- Microzide
- Mobic
- Naproxen
- Neurontin
- Prednisone
- Prilosec
- Prozac
- Seroquel
- Synthroid
- Tramadol
- Trazodone
- Vicodin
- Wellbutrin
- Xanax
- Zocor
- Zolof

Vitamins & Supplements

Pill Identification Tool

The display and use of drug information on this site is subject to express terms of use. By continuing to view the drug information, you agree to abide by such terms of use.

Having trouble identifying your pills? Enter the shape, color, or imprint of your prescription or OTC drug. Our pill finder will display pictures that you can compare to your pill.

Identify Your Pill or Medication

Enter any imprint:

Select the color:

Select the shape:

[Reset Selections](#) [Get Started](#)

Related Articles

- Overview of Prescription Drug Abuse
- RX Abuse common and Dangerous
- Study: Prescription Pain Pill Abuse up 400%
- Prescription Drug Abuse: Who gets addicted and why?
- Drug Abuse on the rise in baby boomers
- Survey Reveals RX Drug Abuse by Teens
- Counseling and Addiction

Hot Topics

- Is Your Eczema Under Control?
- 11 Foods That Stain Your Teeth
- How to Stop Grinding Your Teeth
- Assess Yourself: Check Your MS Symptoms
- Bleeding Gums May Signal Trouble
- Is Your Teen Struggling With ADHD Symptoms?
- Get the Facts About ADHD in Kids
- Do ADHD Kids Need Stricter Rules?
- Better Study Habits for Your ADHD Kid
- What Childhood ADHD Symptoms Look Like




Find a Drug

Drug Name (i.e. aspirin) [Go](#)

Medical Condition (i.e. diabetes)

Commonly Abused Prescription Drugs

Concerned about misuse of prescription drugs? View the pictures of Rx medications and click on images of drugs for medical information about proper uses. For more pill images view as a slideshow.

Vicodin Oral Information	OxyContin Oral Information	Klonopin Oral Information
 Image of VICODIN ES TABLET view larger picture	 Image of OXYCONTIN 20 MG TABLET SA view larger picture	 Image of KLONOPIN 1 MG TABLET view larger picture
Xanax Oral Information	Valium Oral Information	Roxicet Oral Information

THE NEW COPAXONE iTracker™

A free app to help manage your routine

[Roll Over to Expand](#)

[Click here for FULL PRESCRIBING INFORMATION](#)

IMPORTANT SAFETY INFORMATION ABOUT COPAXONE® (glatiramer acetate injection)

flushing, rash, shortness of breath, and chest pain. These are not all of the possible side effects of COPAXONE®. For a complete list, ask your doctor or pharmacist. Tell your doctor

10:37 AM 12/5/2013

Pill Identifier – Drugs.com

[Home](#) > [Pill Identifier](#) > [Search](#)

[Share](#)

Pill Identifier

Search by Imprint, Shape or Color

Use the pill finder to identify medications by visual appearance or medicine name. All fields are optional.

Enter the letters or numbers from your pill

Example   **FOR THIS TABLET YOU WOULD ENTER 9 3 5510**

HINT: To get more results, enter an imprint only. To further expand your search, try entering only part of your imprint.

How to identify a pill using the Pill Identifier?

1. Enter the imprint code that appears on the pill e.g. L484
2. Select the the pill color (optional)

ADVERTISEMENT

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Pill Identifier App

Search more than 24,000 Rx/OTC medications

[Download for iOS](#) 



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Recently Approved

[Lonhala Magnair](#)
Lonhala Magnair (glycopyrrolate) is a long-acting muscarinic antagonist (LAMA) bronchodilator for...

Methamphetamine

Schedule I – no currently accepted medical use and a high potential for abuse

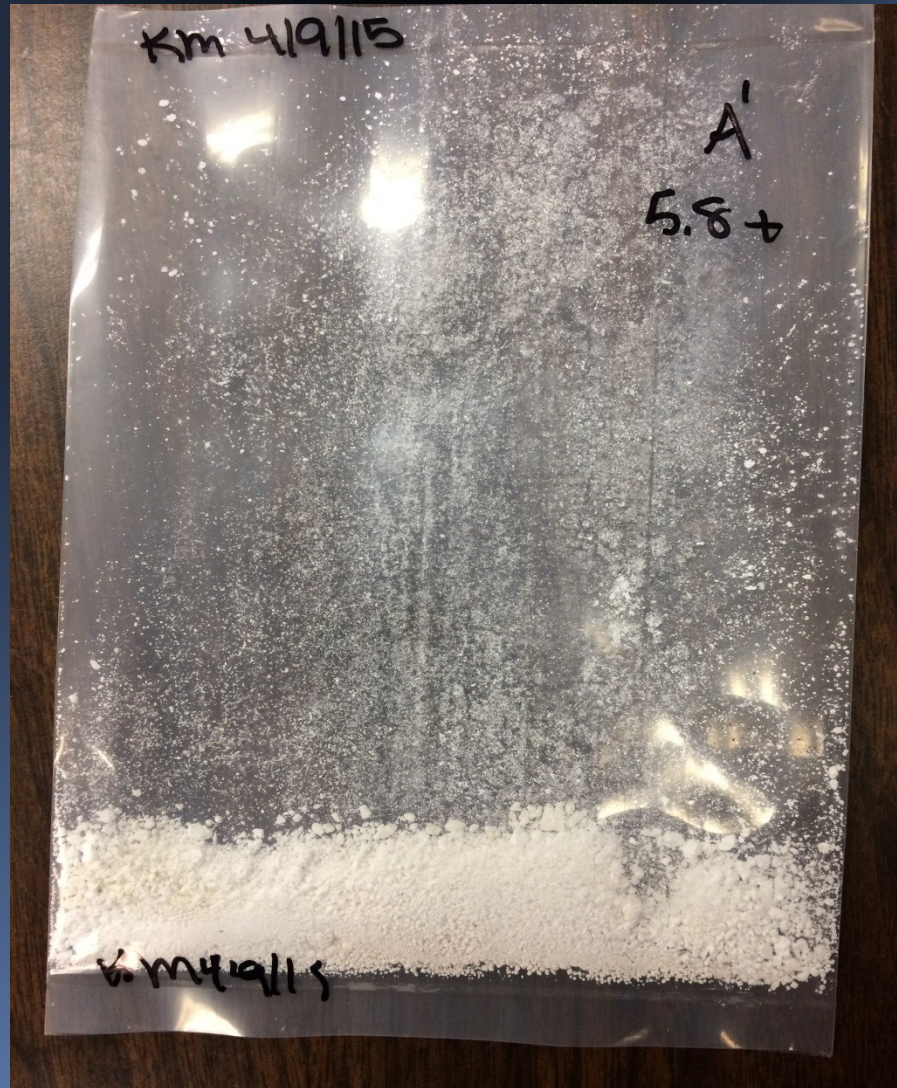
What is Meth?

- Psycho-stimulant
- Powerful upper
- Effects the central nervous system
- Increases metabolism, heart rate, blood pressure
- Increases body temperature and rate of breathing
- Produces Euphoria
- Poor Man's Cocaine



Street Names - Methamphetamine

- Slang Names
 - Meth
 - Chicken Feed
 - Crystal
 - Speed
 - Glass
 - Ice
 - Crank
 - Shake n Bake



One-Pot (Shake & Bake) Labs

- Ephedrine/Pseudoephedrine
- Lithium Metal
- Ammonium Nitrate or Ammonium Sulfate
- Sodium Hydroxide
- Solvent
- Water



CURRENT TRENDS:

- Meth labs are decreasing in Michigan
- Crystal meth is becoming predominant
- Crystal is coming from Mexico
- Mexican cartels are operating “Super labs”

TIANEPTINE

Michigan is the first state to classify as a **schedule II** drug



- Tianeptine or “Stablon” and “Coaxil” is an antidepressant in Russia and Europe
- Russia made it a Controlled Substance III
- Possesses opioid like effects
- Heroin users are starting to use as a replacement
- Sold on Amazon (Not for human consumption)
- Addictive
- Withdrawal symptoms similar to heroin
- Has been reported in Midland
- Recently listed as Schedule II

Kratom

Not a Controlled Substance at this time



123560140

Kratom – *Mitragyna Speciosa*

- Tropical evergreen from southeast asia
- Leaves are utilized to extract alkaloid
- Opioid-like effects with high doses
- Heroin addicts using as replacement or to ween themselves from heroin
- Side effects similar to heroin
- DEA was going to list as Schedule I in 2016

Questions

