

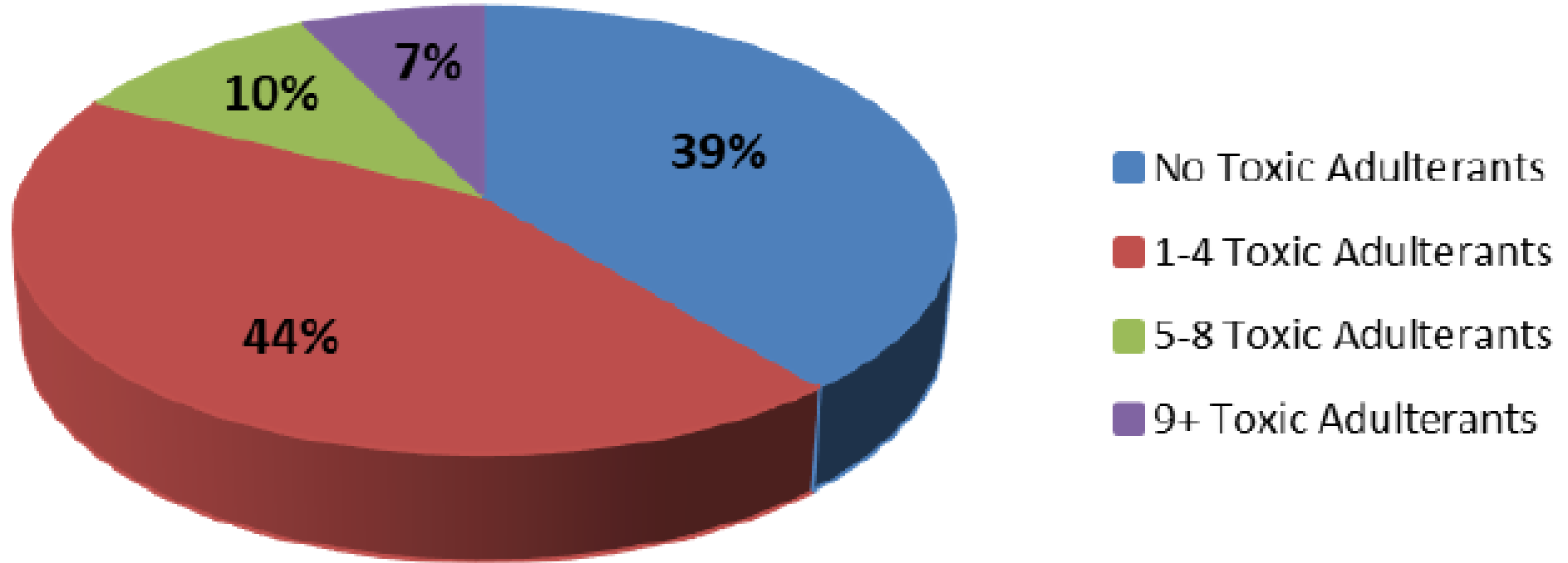
STREET DRUG UPDATE 2024



MANY DRUGS ARE NOT WHAT THEY SEEM



Percentage of methamphetamine, cocaine and opioid drug samples containing adulterants



DRUG INFORMATION TIPS

- Always ask:

 - How do you know that?
 - Could I see the evidence?
- Good sources:
 - Journals
 - Science magazines
 - Reputable websites
 - Colleges and universities
 - NAADAC
- One source or many?

ADDICTION

- **Compulsive drug-taking**
- **Loss of control**
- **Continued use despite negative consequences**
- **Tolerance and physical dependence not required but may be part of the addiction picture**

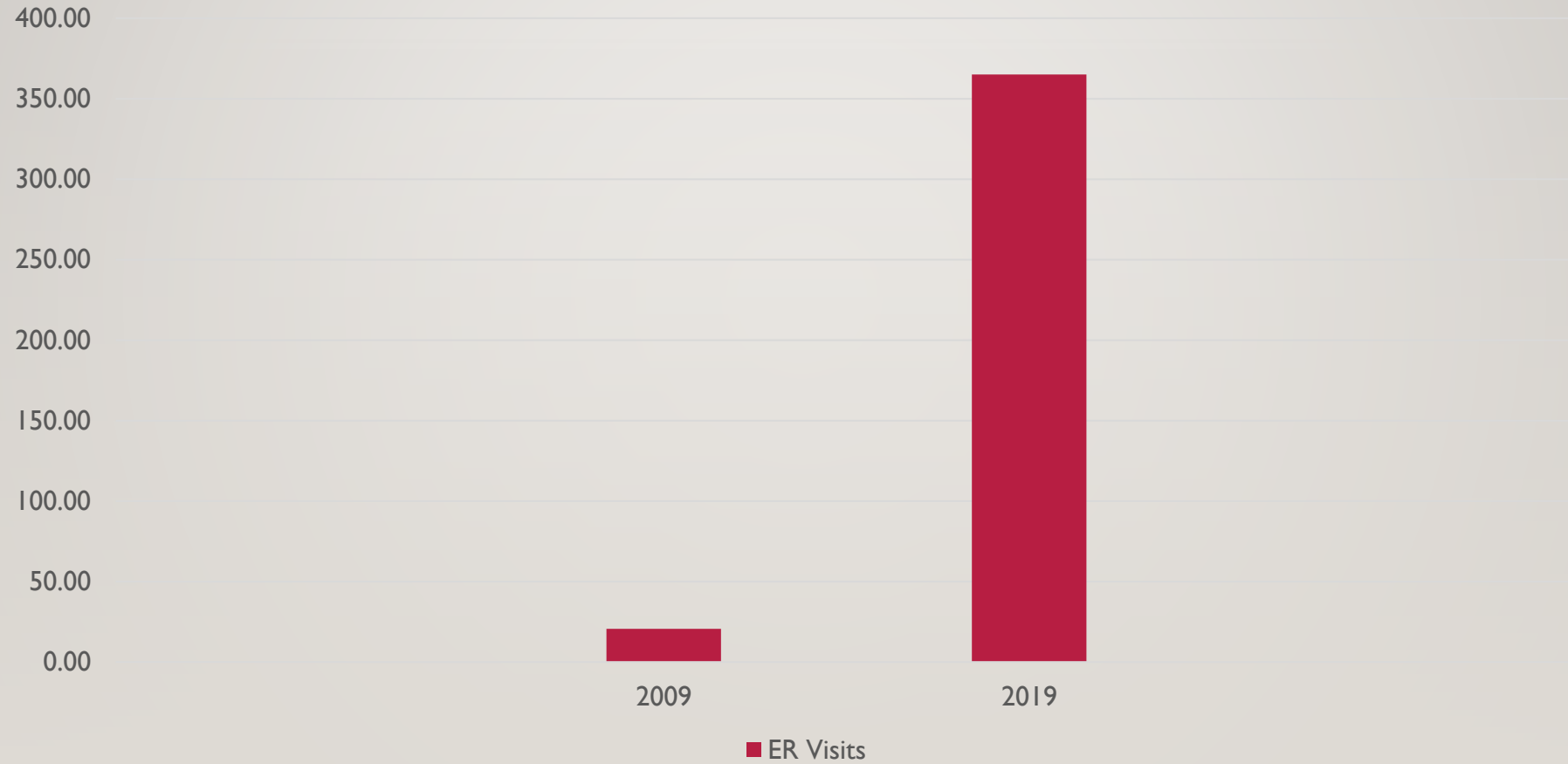
ADDICTION POTENTIAL

- **Ability to stimulate the brain's reward circuits**
- **Ability to meet a individualized neurochemical need**
- **Physical dependency potential**
- **Intensity of withdrawal symptoms**

PSYCHOSTIMULANTS

- Amphetamines (includes methamphetamine)
 - Overdose deaths increased between 2022 and 2023 from 35,251 in 2022 to 53,550 in 2023
- Cocaine
 - Overdose deaths increased from 28,441 in 2022 to 29,918 in 2023

INCREASE IN AMPHETAMINE-RELATED ER VISITS: 2005-2019



AMPHETAMINES

- Methamphetamine
- Adderall (combination of two amphetamines)
- Vyvanse (amphetamines pro-drug)
- (*Concerta/Ritalin/methylphenidate*)

AMPHETAMINES

- Central nervous system stimulant
 - Increased:
 - Blood pressure
 - Pulse
 - Breathing
 - High addiction potential
 - Toxicity
 - Heart attack
 - Stroke
 - Convulsions

AMPHETAMINES

- Central nervous system stimulant
 - Psychiatric impairment
 - Stimulant psychosis

AMPHETAMINES

- Between 2016 and 2017, amphetamine ODs rose 30%.
- Ads on the Internet:
 - **Buy Adderall Online Limited time deal**
- Questions on *Quora*:
 - Is it possible for someone without ADHD to be prescribed Adderall? Are there any tests that need to be done before being prescribed this medication? (Quora, 7/23/24)
 - How can I find an online psychiatrist or counselor who accepts insurance and can prescribe medication, specifically for ADHD?
 - Are there pharmacies that allow customers to directly request medications without a doctor's prescription?
 - Can you snort XL Adderall?
 - Can a person be prescribed both Dexedrine and Ritalin for ADHD treatment at the same time?

AMPHETAMINES

- Questions on *Quora*:
 - Is it possible for a person to obtain an opioid prescription without a doctor's approval?

ADS: JULY 25-27, 2024

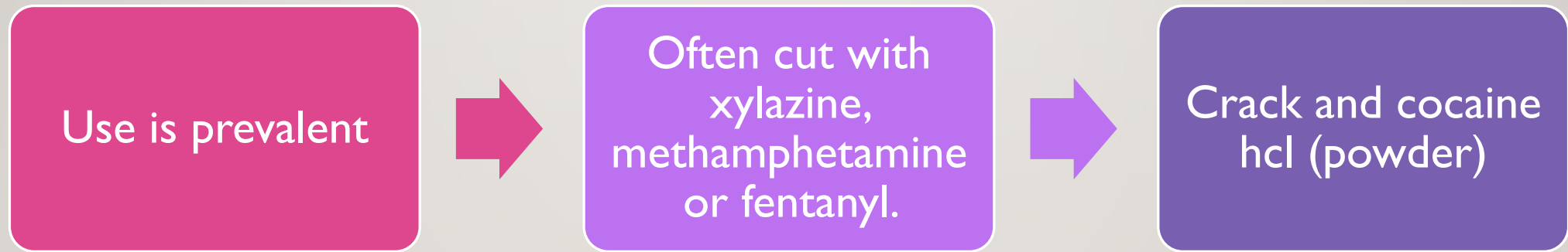
- Buy Ambien Online Overnight Express Delivery with Credit Card
- Buy oxycodone online: day or night
- Buy Xanax online speedy courier for rapid delivery

Wall Street Journal

July 31, 2024

Meta Has Run Hundreds of Ads for Cocaine, Opioids and Other Drugs

COCAINE



CANNABIS

- Indica, sativa, mixed (hybrid)
- Increase in THC levels
- Low to moderate addiction potential
- Toxicity: Respiratory problems, cardiovascular problems, head and neck cancer
 - Journal of the American Heart Association (2024)
 - Compared to those who did not smoke cannabis, weekly smoker had 3% higher risk for heart attack and 5% higher for stroke
 - Daily smokers had a 25% higher risk of cardio disease and 42% higher for stroke

CANNABIS

- Atrial Fibrillation Following Cannabis Use: A Case Report Highlighting the Potential Cardiovascular Effects (Journal of Resuscitation, July 2024)
- Psychiatric impairment: Anxiety, panic, dissociation

PSILOCYBIN

Most often Psilocybe Mexicana

Can be synthetic

Decriminalized in two states

24 states have pending legislation to reform the psilocybin laws

Increase in ER visits following decriminalization in Denver, Co and Portland, OR

Has shown promise in treating depression and cluster headaches

DISSOCIATIVE ANESTHETICS

- PCP (“Angel dust”, “TIC/TAC”, “Embalming fluid”, “fry”, “dips”, “sherms”, “wet”, “wicki stick”)
- Ketamine (“Special K”)
- DXM/Dextrometherphan (Orange Crush, Triple C's, C-C-C, Red Devils, Skittles, DXM, Dex, Vitamin D, Robo, Robo-trippin', Robo-dosing.)

DISSOCIATIVE ANESTHETICS

- *Dissociation*
 - Psychological process involving alterations in identity or sense of self.
 - Often involves the separation of a group of mental processes from the rest of the thought processes,.
 - Separation of *affect* (mood) from *cognition* (thinking),
 - Transient sense that the world or the self is "unreal" (derealization and depersonalization). |

PCP AND KETAMINE: BASIC CHARACTERISTICS

- **Addiction Potential: Low to moderate (ketamine higher)**
- **Tolerance develops**
- **Physical Toxicity Potential:**
 - **PCP: moderate to high**
 - **Ketamine: Low to moderate**
- **Behavioral Toxicity Potential:**
 - **PCP: moderate to extreme**
 - **Ketamine: low to moderate**
 - **DXM: unknown**

**PCP AND
KETAMINE:
BASIC
CHARACTERISTICS**

- **Acute & Chronic Psychiatric Impairment:**
 - **PCP: Moderate to high**
 - **Ketamine: Low to moderate**
 - **DXM: unknown**

DXM- DEXTROMETHORPHAN

- In pill form it is passed off as Ecstasy-20% of Ecstasy is DXM
- Common cough suppressant drug
- Effects similar to Special K: Hallucinations depressed “stoned” feeling and look
- Nystagmus stupor vomiting “Robo Rash” itching.



DXM EXAMPLES – ***NO URINE TEST AVAILABLE***



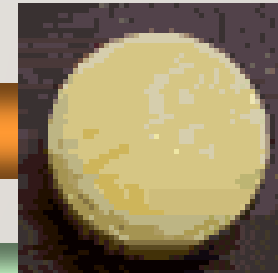
“Pink Molly” Buffalo NY

“Green Triangle” Wide spread



“Star” Indianapolis IN

“Orange Julius” Seattle WA



“Clover” Wide spread across US

Produces *Olney’s Lesions* On Lower Cortex

MDMA

- A “substituted amphetamine”

Mescaline

MDMA, MDA

Amphetamines

MDMA

- A “substituted amphetamine”/empathogen
- Used recreationally (raves”, clubs)
- No data on MDMA use among those 50+
- Tested as a treatment for PTSD
 - Good results
 - FDA turned down request to make MDMA therapy more accessible
- One study showed cognitive decline verbal memory) among heavy MDMA users

OPIOIDS/OPIATES

- Opiates = opium and substances that are made from opium (morphine, codeine)
- Opioids = Synthetic substances (fentanyl, methadone, oxycodone)
- Heroin: Semi-synthetic (made from morphine)
- Death from opioid OD common
- 84,181 in 2022....81,083 in 2023

ADULTERANTS FOUND IN ILLINOIS DRUG SAMPLES

- Fentanyl:
 - Benzyl fentanyl, quinine/quinidine, cocaine, quetiapine, xylazines, 6-MAM, heroin, phethyl-4ANPP, protonitazene, noscapine, clonazepam, acetylcodeine, hydroquinidine, papaverine, nicotinamide, fluoro phenyl 4 ANPP, doxylamine, morphine, cinchonine, risperidone, lidocaine

CNS DEPRESSANTS

- Benzodiazepines
- Non-barbiturate hypnotics
- Barbiturates (Rare)

CNS DEPRESSANTS

- Addiction potential moderate to high
- Tolerance develops
- Physical dependence withdrawal symptoms moderate to severe/life-threatening
- Physical toxicity (overdose) potential moderate to high/other immediate & long-term physical toxicity low
- Low potential for psychiatric impairment

BENZODIAZEPINES

- Alprazolam (Xanax)
- Clonazepam (Klonopin)
- Diazepam (Valium)
- Schedule I benzos:
 - Etizolam
 - Flualprazolam
 - Clonazolam
 - Flubromazolam
 - Diclazepam

NON- BARBITURATE HYPNOTICS

- Ambien
- Lunestra
- Sonata
- Many of the same characteristics as benzodiazepines
- Addition potential unclear
- OD rate went up 2005-2010 220%

BARBITURATES

Powerful hypnotics

High overdose potential

Not reversed by Narcan

Recently pentobarbital (Nembutal) has been detected on the street by itself and in combination with fentanyl and/or xylazine.

Source of powered pentobarbital appears to be Mexico.

First noted on Reddit April 2024

Since then, discussions have doubled

XYLAZINE

- Used as a veterinary sedative and anesthetic (with or without ketamine)
- “Tranq” (anestesia de caballo in Puerto Rico)
 - Used as a cut in heroin and fentanyl
 - Injection may cause tissue necrosis, infections and amputations
- Not approved for human use because of side effects
 - Hypotension
 - Bradycardia
- Imported from foreign countries, costs \$6-20/kilogram
- Maybe used as a standalone drug
- OD not reversed by Narcan

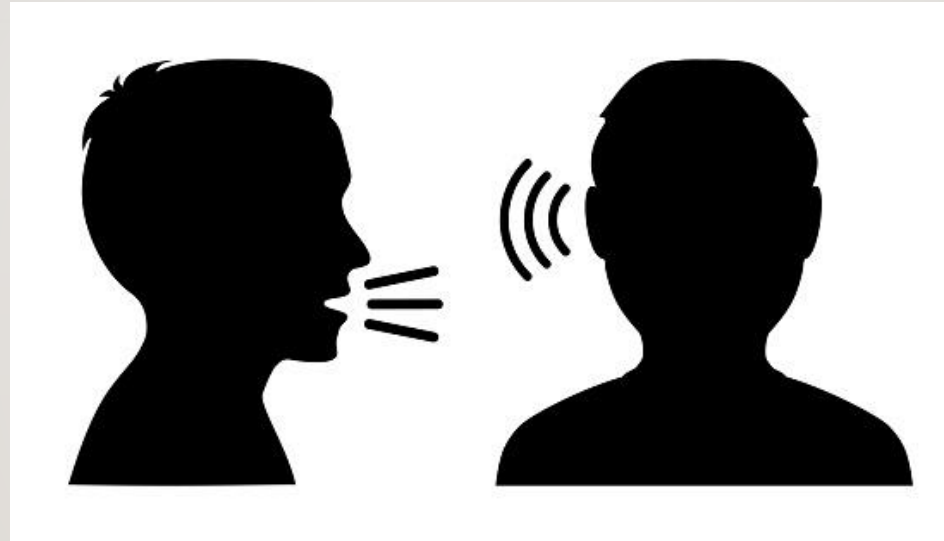
MEDETOMIDINE

Similar action to xylazine

As dexmedetomidine, used as human sedative and anesthetic

Medetomidine is stronger

THANK YOU FOR YOUR ATTENTION!



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