

Understanding the Opioid Crisis: Where do I begin?

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NNLM South Central Region
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National Library of Medicine
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Disclosures

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Librarians are learning how to treat overdoses



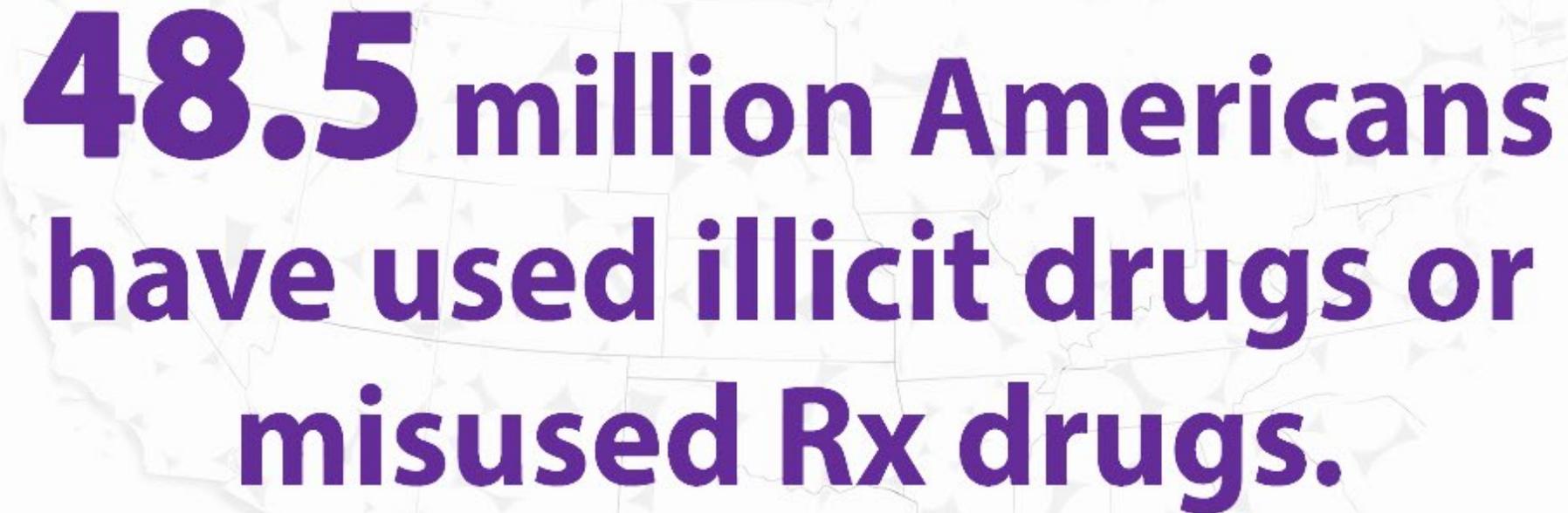
The opioid epidemic is so bad that librarians are learning how to treat overdoses



Audience Poll

According to the CDC, how many Americans have used illegal drugs or misused prescription drugs?

- A. 28.5 million
- B. 38.5 million
- C. 48.5 million
- D. 58.5 million

A faint, light-colored map of the United States is visible in the background, showing state boundaries. The text is overlaid on this map.

**48.5 million Americans
have used illicit drugs or
misused Rx drugs.**

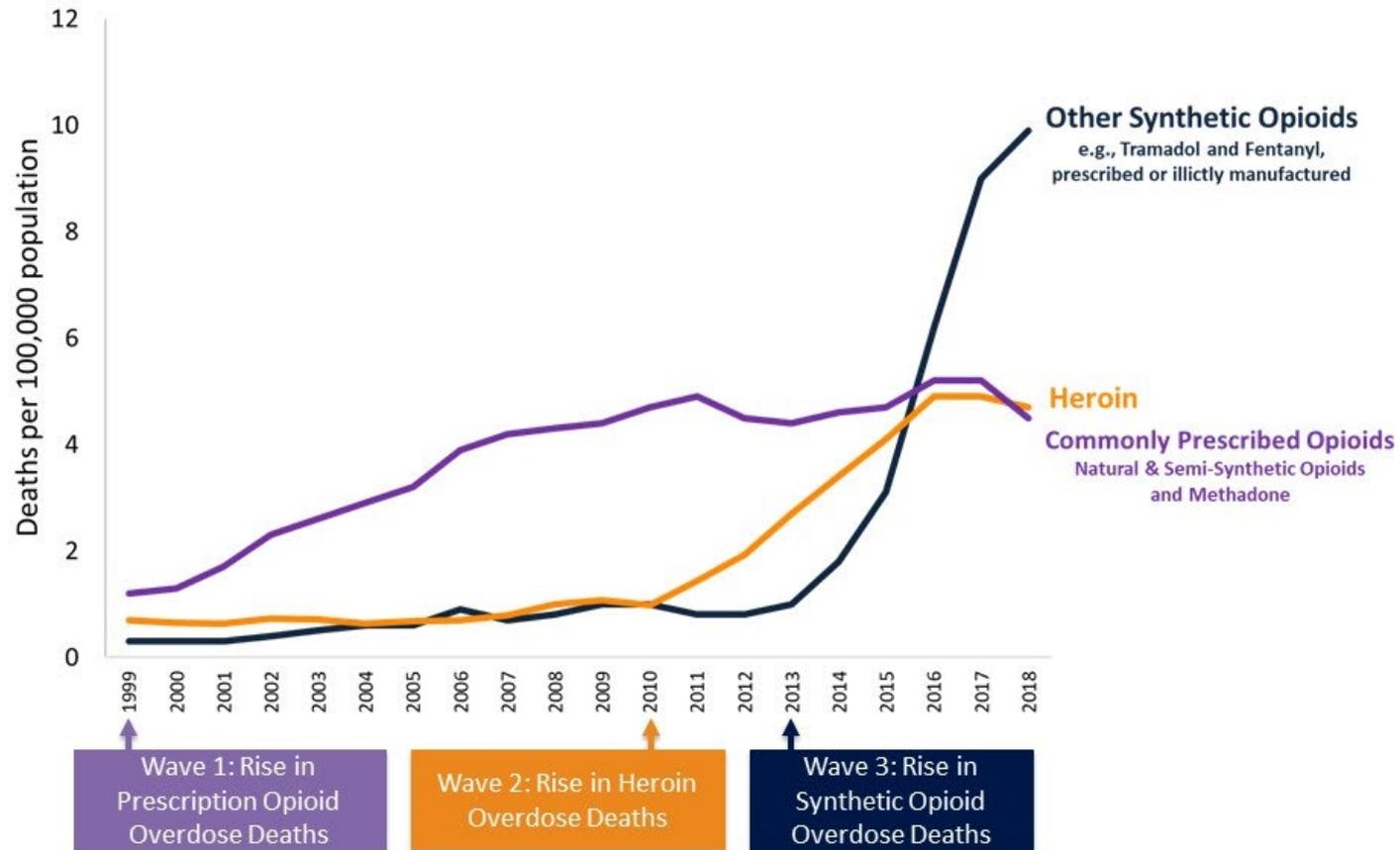
CDC Statistic: 48.5 million Americans have misused drugs www.cdc.gov

Presentation Objectives

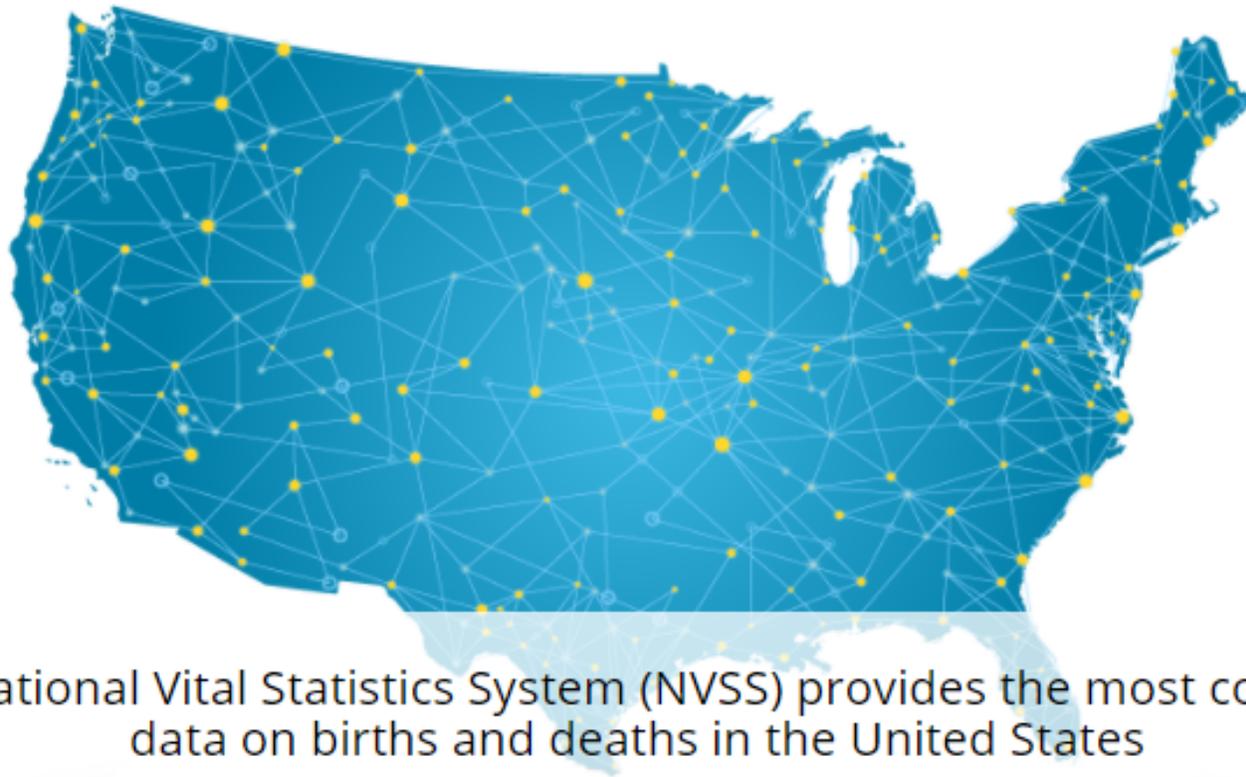
- Explain what addiction and opioids are
- Locate both national and local statistics on opioid use
- Identify authoritative information on opioid overuse, prevention and treatment
- Create outreach programs using the resources discussed in the class

Three Waves of Opioid Misuse Death

3 Waves of the Rise in Opioid Overdose Deaths



SOURCE: National Vital Statistics System Mortality File.



The National Vital Statistics System (NVSS) provides the most complete data on births and deaths in the United States

14.3% (2010) to 46% (2016) rise in deaths

What's New

[Births in the United States, 2019 \(10/2020\)](#)

[Motor Vehicle Traffic Death Rates Among Adolescents and Young Adults Aged 15–24, by Urbanicity: United States, 2000–2018 \(10/2020\)](#)

[Rates of Alcohol-induced Deaths Among Adults Aged 25 and Over in Urban and Rural Areas: United States, 2000–2018 \(10/2020\)](#)

[State Suicide Rates Among Adolescents and Young Adults Aged 10–24: United States, 2000–2018](#)  [PDF – 477 KB] (9/2020)

[U.S. Decennial Life Tables for 2009–2011, Methodology of the United States Life Tables](#)  [PDF – 440 KB] (8/2020)

[Infant Mortality by Maternal Prepregnancy Body Mass Index: United States, 2017–2018](#)  [PDF – 810 KB] (8/2020)

[Urban–rural Differences in Suicide Rates, by Sex and Three Leading Methods: United States, 2000–2018 \(8/2020\)](#)

[U.S. Decennial Life Tables for 2009–2011, United States Life Table](#)  [PDF – 280 KB] (8/2020)

More



What is an opioid?



Naloxone (or NARCAN) = opioid antagonist

Columbus Ohio Experiences 27 Opiate Overdoses in 24 Hours

By *Kelly Burch* 09/29/16

Two people overdosed twice within the same day, officials say.

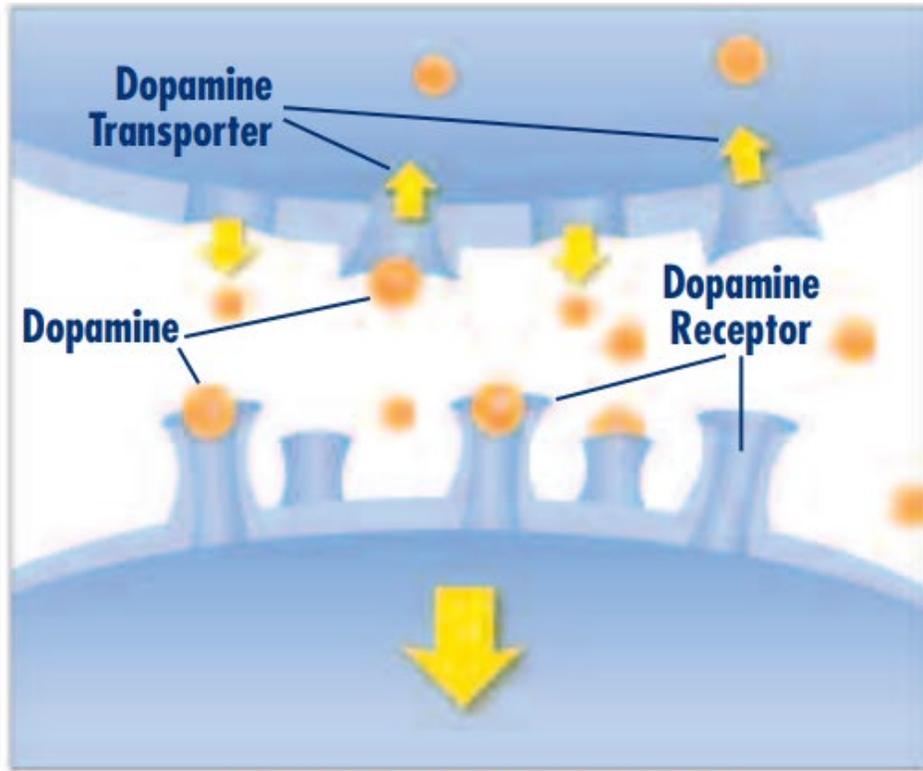
Police and first responders in Ohio are once again on high alert after 27 people overdosed on opiates in a 24-hour period from Tuesday into Wednesday.

Columbus Police Sgt. Rich Weiner said that most of the overdoses occurred in the same area, leading officials to believe that the outbreak was caused by a bad batch of heroin.

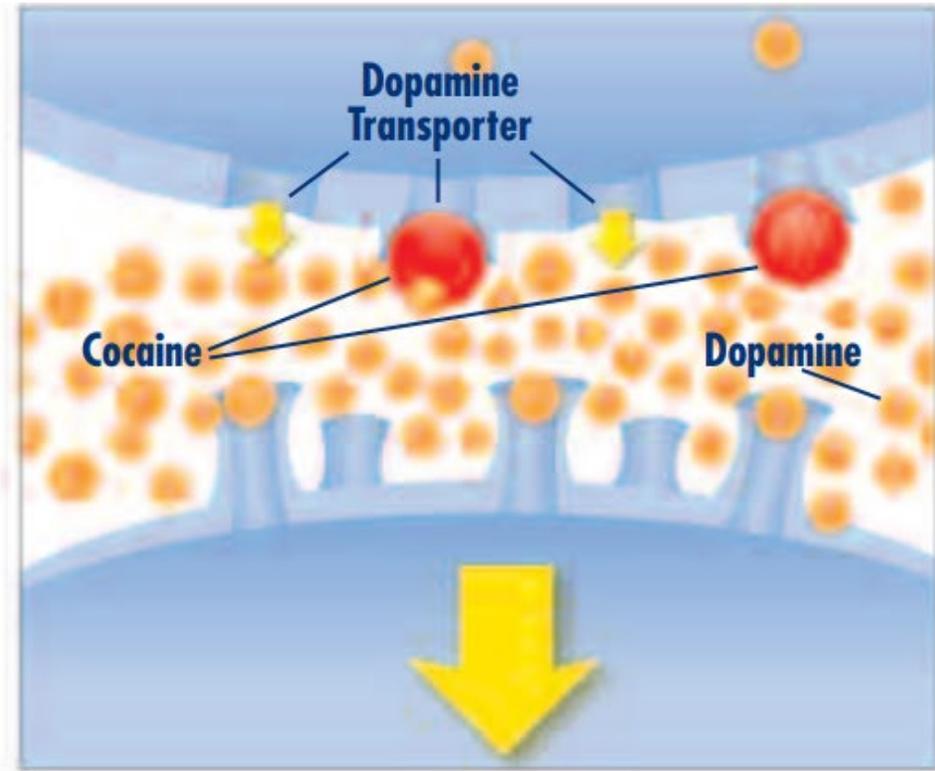


The science of addiction





WHILE EATING FOOD



WHILE USING COCAINE

Typically, dopamine increases in response to natural rewards such as food.
When cocaine is taken, dopamine increases are exaggerated, and communication is altered.

Unnatural dopamine increase

A group of people are sitting in a circle, possibly in a support group or therapy session. The image is dimly lit, with a focus on the individuals' legs and hands. One person in the foreground is wearing a red jacket, while others are in blue and grey clothing. The overall atmosphere is somber and focused.

Medically-Assisted Treatment (MAT)



The **stigma** of addiction

Words are important. If you want to care for something, you call it a “flower”; if you want to kill something, you call it a “weed.”

From “Moral Panics: The Limits of Science and Professional Responsibility”

Home / News / Health News

Addiction Among Older Adults Poses Complex Challenge

Chronic pain and social isolation can complicate efforts to curb substance misuse in America's older population.



By Gaby Galvin, Staff Writer April 16, 2019, at 10:02 a.m.



Prescription drugs are a major driver of substance misuse among older adults. (ISTOCKPHOTO/GETTY)

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COVID-19 is an emerging, rapidly evolving situation. x

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Get the latest research information from NIH: <https://www.nih.gov/coronavirus>

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Find information on health, wellness, disorders and conditions

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Get the latest research information from NIH: <https://www.nih.gov/coronavirus>

[Home](#) → [Health Topics](#) → [Drug Use and Addiction](#)

Drug Use and Addiction

Also called: [Drug abuse](#), [Substance abuse](#)



On this page

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- [Start Here](#)
- [Symptoms](#)
- [Diagnosis and Tests](#)
- [Prevention and Risk Factors](#)
- [Treatments and Therapies](#)

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- [Living With](#)
- [Related Issues](#)
- [Specifics](#)

See, Play and Learn

- [Images](#)
- [Health Check Tools](#)
- [Games](#)

Research

Resources

For You



What is drug use?

Drug use, or misuse, includes

- Using illegal substances, such as
 - Anabolic steroids
 - Club drugs
 - Cocaine
 - Heroin
 - Inhalants
 - Marijuana
 - Methamphetamines
- Misusing **prescription medicines**, including **opioids**. This means taking the medicines in a different way than the health care provider prescribed. This includes
 - Taking a medicine that was prescribed for someone else
 - Taking a larger dose than you are supposed to
 - Using the medicine in a different way than you are supposed to. For example, instead of swallowing your tablets, you might crush and then snort or inject them.
 - Using the medicine for another purpose, such as getting high
- Misusing over-the-counter medicines, including using them for another purpose and using them in a different way than you are supposed to

Drug use is dangerous. It can harm your brain and body, sometimes permanently. It can hurt the people around you, including friends, families, kids, and **unborn babies**. Drug use can also lead to addiction.

What is drug addiction?

Drug addiction is a chronic brain disease. It causes a person to take drugs repeatedly, despite the harm they cause. Repeated drug use can change the brain and lead to addiction.

The brain changes from addiction can be lasting, so drug addiction is considered a "relapsing" disease.

Barbiturate intoxication and overdose

Diet and substance abuse recovery

Drug abuse

Drug abuse first aid

Drug dependence

Toxicology screen

Urine drug screen

Related Health Topics

Alcohol Use Disorder (AUD)

Anabolic Steroids

Club Drugs

Cocaine

Drugs and Young People

Heroin

Inhalants

Marijuana

Methamphetamine

Opioid Misuse and Addiction

Start Here

- [Commonly Used Drugs Charts](#)  (National Institute on Drug Abuse)
Also in Spanish
- [Drug Addiction \(Substance Use Disorder\)](#) (Mayo Foundation for Medical Education and Research)
Also in Spanish
- [Drug Facts](#)  [Easy-to-Read](#)  (National Institute on Drug Abuse)
- [Faces of Change: Do I Have a Problem with Alcohol or Drugs?](#)
(Substance Abuse and Mental Health Services Administration) - PDF
- [The Science of Drug Use: Discussion Points](#)  (National Institute on Drug Abuse)
- [Understanding Drug Use and Addiction](#)  (National Institute on Drug Abuse)
Also in Spanish
- [What Is an Addiction?](#)  [Easy-to-Read](#) (National Institute on Drug Abuse)
Also in Spanish

Symptoms

- [What are some signs and symptoms of someone with a drug use problem?](#)
 [Easy-to-Read](#) (National Institute on Drug Abuse)
Also in Spanish

Diagnosis and Tests

- [Drug Testing](#)  (National Library of Medicine)
Also in Spanish
- [Mental Health Screening](#)  (National Library of Medicine)
Also in Spanish

Prevention and Risk Factors

- [CDC Vital Signs: HIV and Injection Drug Use](#) (Centers for Disease Control and Prevention)
- [Dealing with Drug Problems: Preventing and Treating Drug Abuse](#)  (National Institutes of Health)
Also in Spanish

Treatments and Therapies

- [Treatment Approaches for Drug Addiction](#)  (National Institute on Drug Abuse)
Also in Spanish
- [What Is Substance Abuse Treatment? A Booklet for Families](#)
(Substance Abuse and Mental Health Services Administration) - PDF

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Mobile Site



Information available for 84,484 drugs.

By Name By Category

- ▶ [Show examples.](#)
- ▶ [Show drug category names, results, and descriptions.](#)
- ▶ [Show top "By Name" searches \(previous seven days\).](#)
- ▶ [Show top "By Category" searches \(previous seven days\).](#)
- ▶ [Show top dispensed prescriptions in the US Market, 2010.](#)
- ▶ [Show common drug names list.](#)
- ▶ [Show generic name stems list.](#)
- ▶ [Show list of resources searched.](#)

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U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894
National Institutes of Health, Health & Human Services
Freedom of Information Act
Drug Information Portal Mobile Site
Last updated: Sep 2020





By Name By Category

NALOXONE

Go

Result

Drug Name: Naloxone [INN:BAN]

[View Synonyms](#)

[View Structure](#)

Description: A specific opiate antagonist that has no agonist activity. It is a competitive antagonist at mu, delta, and kappa opioid receptors.

Categories:

- [Central Nervous System Agents](#)
- [Narcotic Antagonists](#)
- [Peripheral Nervous System Agents](#)
- [Sensory System Agents](#)

[Show fewer categories](#)

Summary

- [Summary of drug information \(MedlinePlusDrug\)](#)
- [Summary of consumer health information \(MedlinePlusTopics\)](#)
- [Summary of the effect on breastfeeding \(LactMed\)](#)
- [Summary of Drug-Induced Liver Injury \(LiverTox\)](#)
- [Manufacturers drug label \(DailyMed\)](#)
- [Clinical trials \(ClinicalTrials.gov\)](#)

Detailed Summary

- [Summary of reviewed biological and physical data \(HSDB\)](#)
- [References from scientific journals \(Medline/PubMed\)](#)
- [Full text biomedical articles \(PubMed Central\)](#)
- [References from toxicological journals \(TOXLINE\)](#)
- [Biological activities and chemical structures \(PubChem\)](#)
- [Toxicological and chemical resources \(ChemIDplus\)](#)

Additional Resources

[ALL DRUGS](#)[HUMAN DRUGS](#)[ANIMAL DRUGS](#)**MORE WAYS TO SEARCH:**[ADVANCED SEARCH](#)[BROWSE DRUG CLASSES](#)[LABEL ARCHIVES](#)[TABLET/CAPSULE ID TOOL](#)

This website contains **129777** drug listings as submitted to the **Food and Drug Administration (FDA)**.
At the present time, this Web site does not contain a complete listing of labels for approved prescription drugs.

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NEWS

[DailyMed Announcements](#)**Posted: August 17, 2020****Pillbox Retiring**

Pillbox is being retired in January 2021, for further information please

FDA GUIDANCES & INFORMATION

[Drug Guidance, Compliance & Regulatory Information](#)[View FDA Structured Product Labeling Resources](#)[View FDA Drug Labeling Guidances](#)[View All FDA Drug Guidances](#)

LABEL: BUPRENORPHINE AND NALOXONE- buprenorphine hydrochloride and naloxone hydrochloride tablet

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NDC Code(s): 50383-287-93, 50383-294-93

Packager: Hi-Tech Pharmacal Co. Inc.

Category: HUMAN PRESCRIPTION DRUG LABEL

DEA Schedule: CIII

Marketing Status: Abbreviated New Drug Application

DRUG LABEL INFORMATION

Updated December 16, 2019

If you are a consumer or patient please visit [this version](#).

DOWNLOAD DRUG LABEL INFO: [PDF](#) | [XML](#) 

MEDICATION GUIDE: [HTML](#) 

OFFICIAL LABEL (PRINTER FRIENDLY) 

VIEW ALL SECTIONS

+ HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use BUPRENORPHINE AND NALOXONE SUBLINGUAL TABLETS safely and effectively. See full prescribing information for BUPRENORPHINE AND ...

+ TABLE OF CONTENTS

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PICK YOUR POISON

INTOXICATING PLEASURES
& MEDICAL PRESCRIPTIONS

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exhibition specifications



host venue resources

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INFORMATION

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PICK YOUR POISON

INTOXICATING PLEASURES & MEDICAL PRESCRIPTIONS



EXHIBITION PROGRAM

In colonial America, home-brewed beer was popular among farmers and the working class and came to accompany a wide range of special events. Many physicians were enthusiastic about the medicinal properties of alcohol. As critics began to note the deleterious effects of frequent indulgence...



[CONTINUE to ALCOHOL](#)

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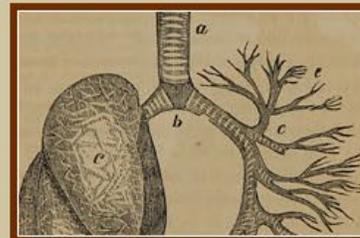
LEARN more



Advertisement for medicinal drops to relieve toothache, Lloyd Manufacturing Co., 1885
 Courtesy National Library of Medicine

FIND OUT 

SEE the digital gallery



FIND the traveling exhibition



GET SMART ABOUT DRUGS

A DEA RESOURCE FOR PARENTS, EDUCATORS & CAREGIVERS

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CONSEQUENCES

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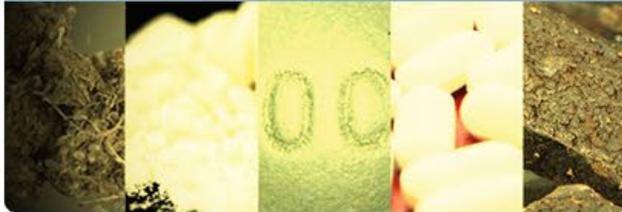
Search for information about a drug

Search by Name or Street Name

- Any -

View Popular Searches: [POT](#), [HEROIN](#), [METH](#)

SEARCH



MARIJUANA

Cocaine

Last Updated: Thursday, June 18, 2020

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19

What is it?

White, crystalline powder derived from coca leaves. Cocaine base (crack) looks like small, irregularly shaped white rocks.

Street Names

Coca, Coke, Crack, Crank, Flake, Rock, Snow, Soda Cot

How is it used?

- Snorted
- Dissolved in water and injected
- Crack cocaine is smoked
- Cocaine users usually binge on the drug until they are exhausted or run out of cocaine.



Drug Enforcement Agency Resource



Drug overdose remains a leading cause of injury-related death in the United States. Overdoses involving prescription and illicit opioids take the lives of 128 people every day. Take action and learn how to prevent and reduce harms associated with drug use, misuse, and overdose. Save a life.

CDC Resource

Fast Facts

Overdose Data to Action

What's New

COVID-19 is an emerging, rapidly evolving situation.

Get the latest information from [CDC \(coronavirus.gov\)](#) | [NIH Resources](#) | [NIDA Resources](#)

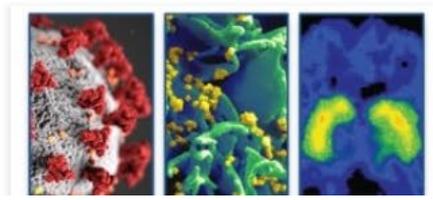
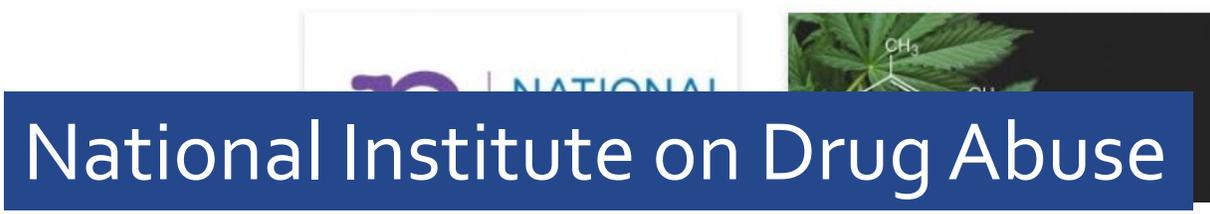
National Institute on Drug Abuse

NIDA is the lead federal agency supporting scientific research on drug use and its consequences.

[Learn More About NIDA](#)



Featured





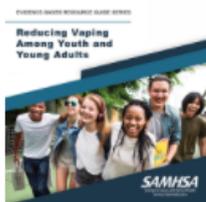
Evidence-Based Practices Resource Center

SAMHSA is committed to improving prevention, treatment, and recovery support services for mental and substance use disorders.

The Evidence-Based Practices Resource Center provides communities, clinicians, policy-makers and others with the information and tools to incorporate evidence-based practices into their communities or clinical settings.

[Learn more about EBP Resource Center...](#)

Featured Resources



Reducing Vaping Among Youth and Young Adults



Treatment of Stimulant Use Disorders



Substance Misuse Prevention for Young Adults



First-Episode Psychosis and Co-Occurring Substance Use Disorders



Preventing the Use of Marijuana: Focus on Women and Pregnancy



Medication-Assisted Treatment (MAT) in the Criminal Justice System: Brief Guidance to the States

Outreach Programming – Discuss!

The Opioid Crisis

June 5, 2018, Feature, by Vitisia Paynich



How park and recreation agencies are helping children and families cope with this epidemic

On March 4, 2017, law enforcement was dispatched to a scene in Sharon, Pennsylvania. When police officers arrived outside an apartment located on Connelly Boulevard, they encountered a 5-year-old boy, who led them into the residence where his parents lay unresponsive from a suspected drug overdose. Emergency medical technicians administered Narcan to the father, who regained consciousness, while the mother awoke without the need for the medicine. Although these types of emergencies have become widespread, most startling, in this case, was the fact that the son was the one who called 911.

"I think this one is going to stick with me a little more," Sharon Police officer Andrew O'Shall told a WKBN-NBC4 reporter. "Just the fact that it was a 5-year-old that watched his parents overdose in front of him and could have potentially died had he not called."

Unfortunately, this type of traumatic event is becoming all too common for children living in cities and towns across the United States. Drug endangered children, as

defined by the National Alliance for Drug Endangered Children, are those "who are at risk of suffering physical or emotional harm as a result of illegal drug use that interferes with the care of their parent — take on

National Parks & Recreation Association Magazine

When looking at the indicators for preventing opioid use, misuse, and substance use disorder, the upstream interventions for each indicator come back to the same conditions for health—a livable wage, safe housing, quality education, affordable child care, health insurance coverage, social support, food security, and social cohesion.

Minnesota Department of Health

Thank you!

Evaluation & MLA CE: <https://nnlm.gov/Zhh>

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South Central Region

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Disclaimer: None of the information in this presentation constitutes medical advice. Always consult a doctor before making significant lifestyle changes.