# **Drug Education for Families**

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### Drug Classifications

### Illicit Drug Impact

### History of Drug Laws

### Addressing Illicit Substance Abuse



Central Nervous System Depressants

### What are CNS Depressants?

## 01

#### Definition

CNS depressants are drugs that slow brain activity, commonly used to treat anxiety, panic, and sleep disorders.

## 02

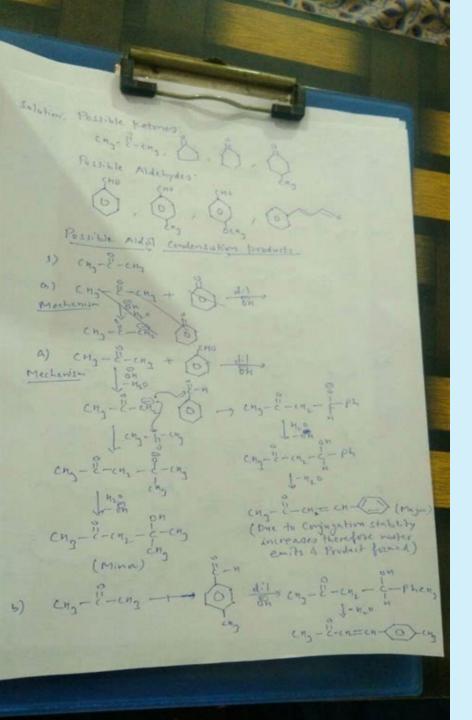
Types of CNS Depressants

Examples include diazepam (Valium), clonazepam (Klonopin), alprazolam (Xanax), and triazolam (Halcion).

## 03

#### Origin and Illicit Drugs

Other CNS depressants include meprobamate, methaqualone (Quaalude),



## Mechanism of Action

#### **Brain Function**

CNS depressants work by slowing down the function of the brain, leading to a calming effect.

#### Effects

They can induce relaxation, reduce anxiety, and promote sleep.

#### Risks of Misuse

Misuse of CNS depressants can lead to addiction, overdose, and severe health complications.

### **Dangers and Risks**

## 01

#### Health Risks

Misuse of CNS depressants can result in respiratory depression, coma, and even death.

## 02

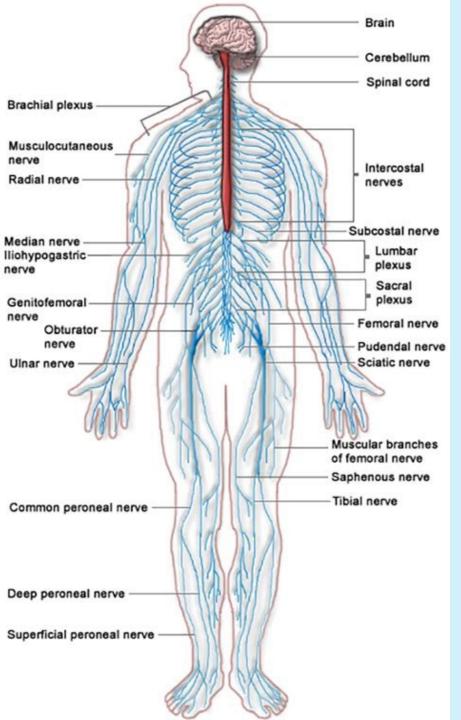
#### **Addiction Potential**

Prolonged use can lead to physical and psychological dependence.

## 03

#### Legal Implications

Illicit use of CNS depressants can lead to legal consequences and criminal charges.



### Impact on the Central Nervous System

#### **Neurological Effects**

CNS depressants reduce the activity of the central nervous system, affecting cognitive and motor functions.

#### Long-Term Consequences

Prolonged use can lead to memory impairment, cognitive decline, and neurological damage.

#### **Public Health Concerns**

Illicit CNS depressants pose a significant risk to public health and safety.



# Alcohol

### **Definition and Types of Alcohol**

## 01

#### **Alcohol Definition**

Alcohol, also known as ethanol, is a central nervous system depressant that can lead to changes in mood, behavior, and self-control.

### 02

#### Types of Alcoholic Beverages

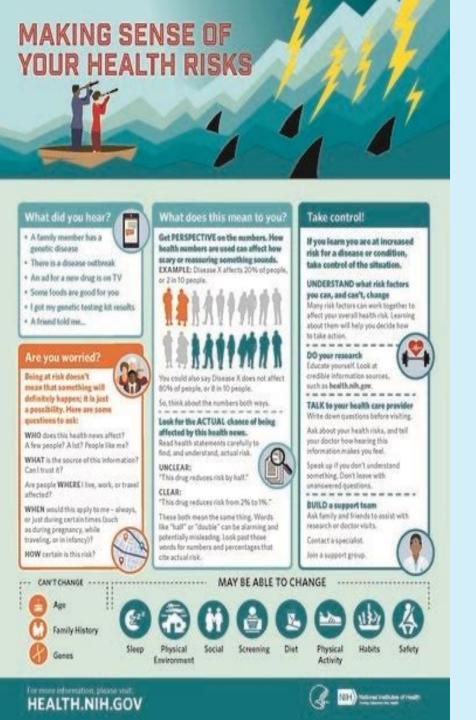
Alcoholic drinks include beer, wine, and spirits, each containing varying levels of alcohol content.

## 03

#### Alcohol Chemistry

It is an organic compound with a hydroxyl group bound to a carbon atom, and its intoxicating effects are welldocumented.

## What are some Health Risks Associated with Alcohol????



# Health Risks Associated with Alcohol

#### **Physical Health Impact**

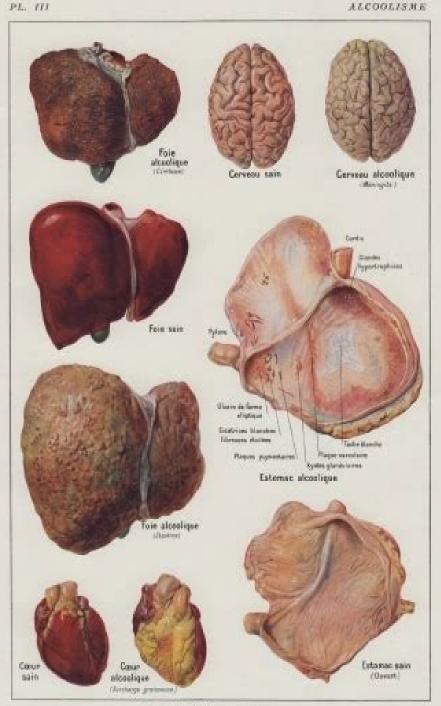
Excessive alcohol consumption can lead to a range of health problems, including liver diseases, cancer, and cardiovascular issues.

#### Mental and Behavioral Disorders

Alcohol use is linked to mental health issues, such as alcohol dependence and behavioral disorders.

#### Short-Term Effects

Drinking too much alcohol in a single occasion can result in injuries, violence, and other immediate health risks.



#### Action de l'alceolisme sur les organes.

### Alcohol's Impact on the Body

#### Central Nervous System Depressant

Alcohol's effects on the brain lead to a slowing down of brain activity, affecting mood, cognition, and coordination.

#### Organ Damage

Prolonged alcohol use can cause damage to vital organs, including the liver, heart, and pancreas, leading to severe health complications.

#### Long-Term Health Consequences

Chronic alcohol consumption is associated with a range of long-term health consequences, necessitating awareness and preventive measures.



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Sedative and Analgesic For Use In Horses and Cervidor Only ONTAINS PER ML: Tylatine (base equivalent) Inglansent as the hydrochloride) with methylastoben 0.9 mg; propylparaben 0.1 mg water for injection; citrix acid and socium citrate pH adjustment to 5.5 ± 0.3.

Net Contents: 50 mL

### Xylazine

# Is Xylaxine Made for Human Consumption???

### What is Xylazine?

## 01

#### **Powerful Sedative**

Xylazine, also known as "Tranq," is a potent sedative approved for veterinary use by the U.S. Food and Drug Administration.

## 02

#### Illicit Use

Despite being intended for veterinary purposes, xylazine has increasingly surfaced in the illegal drug supply, posing a significant public health threat.

## 03

#### Link to Overdose Deaths

The presence of xylazine in illicit drugs has been associated with a rising number of overdose deaths, raising concerns about its impact on public health.

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### The Dangers of Xylazine

#### Non-Approved for Human Use

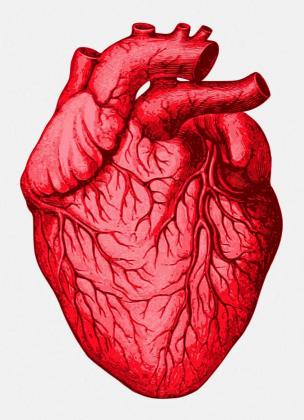
Xylazine is not approved for human consumption, making its presence in illicit drugs particularly hazardous.

#### Adulteration in Illicit Drug Mixtures

Xylazine has been reported as an adulterant in various illicit drug mixtures, contributing to the growing number of overdose deaths.

#### **Health Risks**

Health care professionals have been alerted to the risks associated with xylazine inclusion in illicit drugs, emphasizing the need for caution and awareness.



### Xylazine-Associated Health Risks

#### **Central Nervous System Depression**

Xylazine can lead to depression of the central nervous system, causing slowed heart rate, reduced breathing, and sedation.

#### Wound-Related Risks

Xylazine-associated wounds may increase the risk of bacteremia, endocarditis, sepsis, limb amputation, and death.

#### **Adverse Effects**

Xylazine exposure can result in dangerously low blood pressure, slowed heart rate, and difficulty breathing, posing serious health risks.



### Xylazine Exposure and Health Risks

#### Symptoms of Exposure

Exposure to xylazine can cause sedation, slowed heart rate, and difficulty breathing, leading to lifethreatening situations.

#### **Risk of Fatal Overdose**

Xylazine significantly increases the risk of fatal overdose by depressing the central nervous system and reducing breathing.

#### Wound Formation

Chronic xylazine use by injection has been associated with severe, necrotic skin ulcers and abscesses, increasing the risk of bacteremia and sepsis.

## Xanax

### What is Xanax?

## 01

#### Prescription Medication

Xanax, or alprazolam, is a prescription benzodiazepine used to treat anxiety and panic disorders.

## 02

#### Sedative Properties

It acts as a central nervous system depressant, producing a calming effect on the brain and body.

## 03

#### **Potential for Misuse**

Despite its therapeutic benefits, Xanax carries a high risk of misuse and addiction due to its sedating effects.



### **Prevalence of Misuse**

#### **Growing Problem**

Xanax misuse and addiction have been on the rise, contributing to the larger issue of benzodiazepine abuse.

#### **Recent Data**

Studies indicate a significant increase in the misuse of benzodiazepines, including Xanax, leading to serious health concerns.

#### Public Health Impact

The misuse of Xanax poses substantial risks to individuals, families, and communities, necessitating awareness and intervention. What is a sign someone might be misusing Xanax????

### **Signs and Symptoms**

## 01

#### **Physical Symptoms**

Misuse of Xanax may lead to drowsiness, dizziness, slurred speech, and impaired coordination.

## 02

#### **Psychological Effects**

Users may experience confusion, memory problems, mood swings, and heightened anxiety.

## 03

#### **Behavioral Indicators**

Misuse can result in social withdrawal, secretive behavior, and neglect of responsibilities.



### **Health Implications**

#### **Physical Health Risks**

Misuse of Xanax can lead to respiratory depression, overdose, and other life-threatening complications.

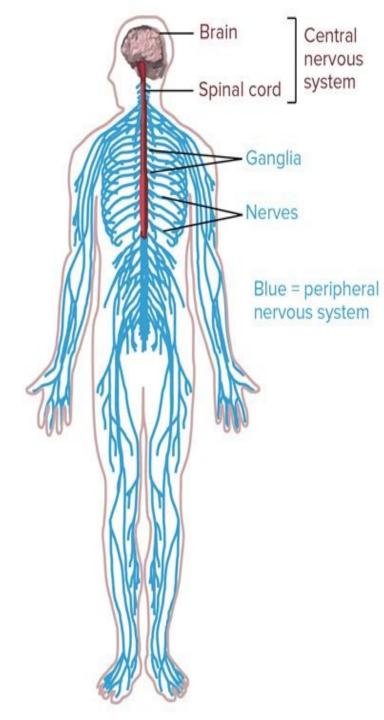
#### Mental Health Impact

Prolonged misuse may worsen anxiety symptoms, trigger depression, and lead to cognitive impairment.

#### Social and Occupational Consequences

Misuse can strain relationships, hinder academic or professional performance, and lead to legal issues.

## Central Nervous System Stimulants



### **CNS Stimulants**

#### **Increased Alertness**

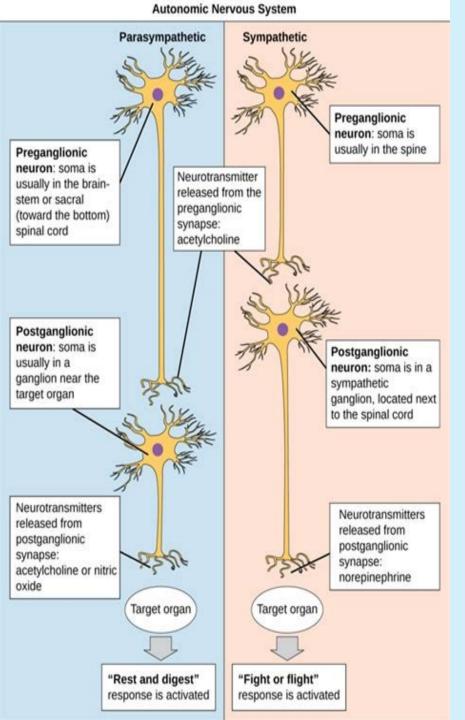
CNS stimulants elevate heart rate and blood pressure, leading to heightened alertness and energy.

#### **Common Types**

Examples of CNS stimulants are cocaine, amphetamines, and methamphetamine.

#### **Adverse Effects**

Prolonged use can result in cardiovascular issues, paranoia, and severe psychological dependence.



### **Types of CNS Stimulants**

#### Amphetamines

This class includes drugs like Adderall and Dexedrine, which are widely prescribed for attention deficit hyperactivity disorder (ADHD) and narcolepsy.

#### Methylphenidate

Medications like Ritalin and Concerta fall under this category, also used to manage ADHD and narcolepsy.

#### Non-Amphetamine Stimulants

Drugs such as modafinil and armodafinil are alternative stimulants with distinct mechanisms of action and applications.



### Impact on Health

#### **Adverse Effects**

CNS stimulants can lead to decreased appetite, anxiety, jitteriness, headaches, weight loss, and insomnia.

#### Severe Complications

Misuse can result in seizures, respiratory failure, hyperthermia, cardiovascular effects, and even death.

#### **Toxic Exposure Symptoms**

Restlessness, anxiety, irritability, and hyperactivity are common symptoms of toxic exposures to CNS stimulants.



## Crystal Methamphetamine

### What is Crystal Methamphetamine?

## 01

#### Highly Addictive Substance

Crystal methamphetamine is a potent and highly addictive stimulant that affects the central nervous system.

## 02

#### Physical and Psychological Effects

It induces a rapid and intense high, leading to increased energy, decreased appetite, and a sense of euphoria.

## 03

#### Long-Term Health Impacts

Prolonged use can result in severe dental problems, skin sores, and significant weight loss.

### **Benzedrine and Early Methamphetamine Use**



#### **Early Medicinal Use**

Methamphetamine was first synthesized in 1893 and used in nasal decongestants and bronchial inhalers.



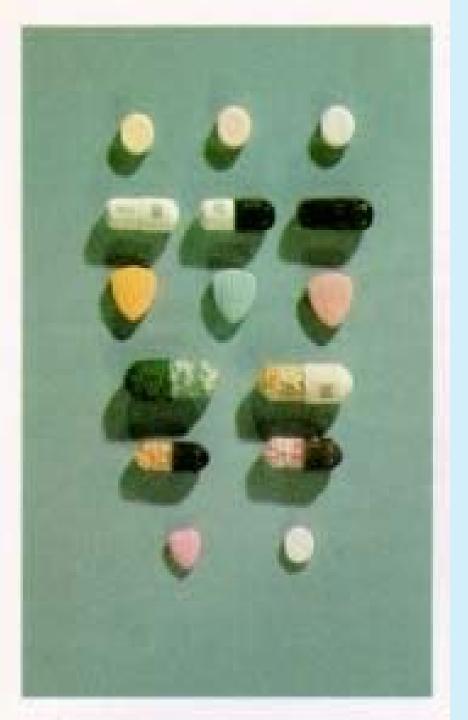
#### World War II

Methamphetamines were widely used by soldiers to combat fatigue and enhance performance during the war.



#### Post-War Recreational Use

The surplus of methamphetamines after the war led to recreational use and addiction.



### Methamphetamine in the 20th Century

#### **Medical Applications**

Methamphetamine was prescribed for weight loss, depression, and attention disorders in the mid-20th century.

#### **Rise of Illicit Use**

The 1960s saw an increase in illicit production and distribution of methamphetamines.

#### **Cultural Impact**

Methamphetamine became associated with counterculture and recreational drug use.

### **Physical Health Deterioration**

## 01

#### **Dental Issues**

Crystal methamphetamine use is associated with severe dental problems, including tooth decay and loss.

## 02

#### Skin Damage

Users may develop skin sores and experience rapid aging due to the drug's impact on blood vessels and skin health.

## 03

#### Nutritional Deficiencies

Prolonged use can lead to significant weight loss and malnutrition.



### Mental Health Impacts

#### Psychosis and Paranoia

Crystal methamphetamine use can induce hallucinations, delusions, and extreme paranoia.

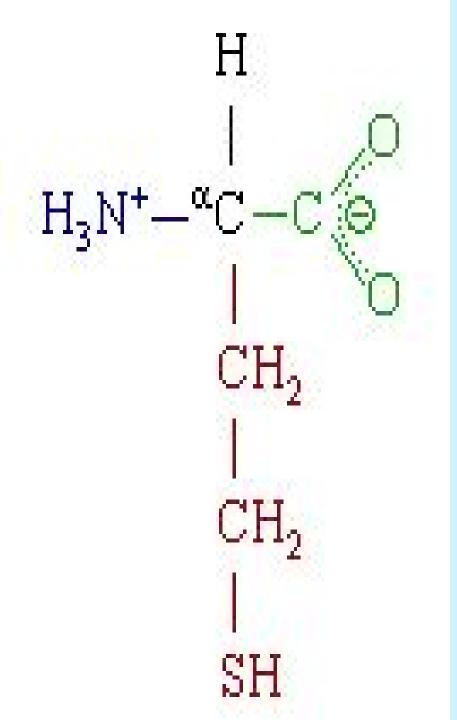
#### **Anxiety and Depression**

Users may experience severe anxiety, depression, and mood disturbances, leading to long-term mental health challenges.

#### Cognitive Impairment

Prolonged use can result in memory loss, cognitive decline, and impaired decision-making abilities.

# Cocaine



### **Chemical Composition**

#### **Coca Plant Alkaloids**

Cocaine is derived from the coca plant and is one of the primary alkaloids present in the plant.

#### **Stimulant Properties**

The chemical structure of cocaine allows it to act as a potent central nervous system stimulant, affecting neurotransmitter levels in the brain.

#### **Addictive Potential**

The chemical composition of cocaine contributes to its highly addictive nature and powerful euphoric effects.

### **Illicit Production and Distribution**

## 01

#### **Cocaine Extraction**

The process of extracting cocaine from coca leaves involves several chemical steps, often carried out in clandestine laboratories.

## 02

#### **Global Trafficking**

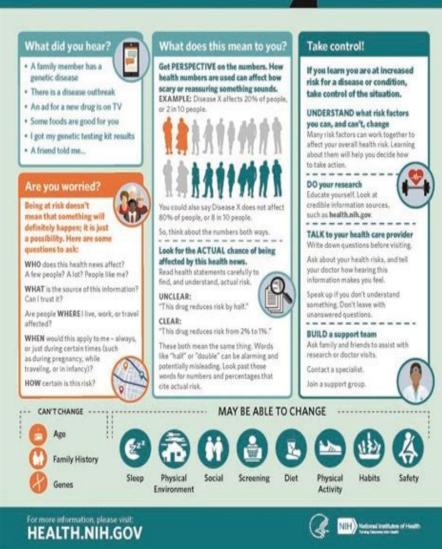
Cocaine is trafficked worldwide, with major production centers in South America and distribution networks spanning the globe.

## 03

#### Social and Economic Impact

Illicit cocaine production and distribution have significant social and economic consequences, including violence, corruption, and environmental degradation.

### MAKING SENSE OF YOUR HEALTH RISKS



### Health Effects and Risks

#### Short-Term Effects

Cocaine use can lead to increased heart rate, elevated blood pressure, and heightened alertness, along with feelings of euphoria and energy.

#### Long-Term Consequences

Chronic cocaine use can result in severe health issues, including cardiovascular complications, neurological damage, and addiction.

#### **Public Health Concerns**

The widespread use of cocaine poses significant public health challenges, including addiction treatment and harm reduction efforts.

### **Social and Behavioral Impact**



#### Addiction and Dependency

Cocaine use can lead to addiction, causing individuals to prioritize drug use over other aspects of their lives.



#### **Criminal Activity**

The illegal nature of cocaine production and distribution contributes to associated criminal activities, including violence and organized crime.

#### Family and Community Disruption

Cocaine addiction can lead to strained relationships, financial instability, and community disintegration.

## Hallucinogens

### Hallucinogens

## 01

#### **Altered Perception**

Hallucinogens cause profound distortions in a person's perception of reality.

### 02

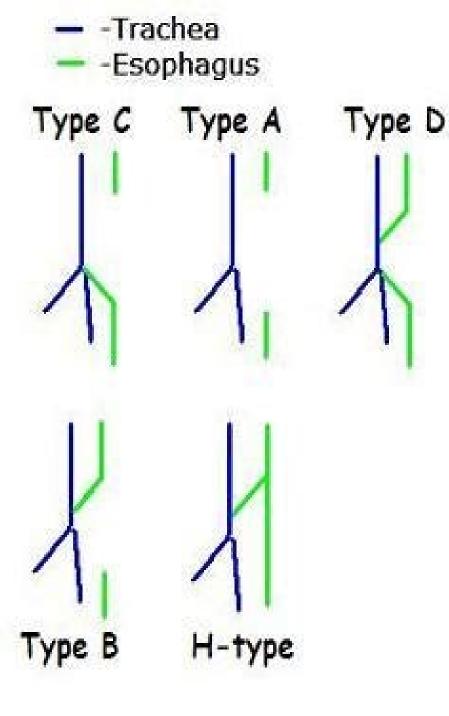
#### Substances

LSD, psilocybin (magic mushrooms), and MDMA are among the well-known hallucinogens.

## 03

#### Psychological Impact

Users may experience intense visual and auditory hallucinations, leading to unpredictable behavior.



### **Types of Hallucinogens**

#### **Natural Sources**

Hallucinogens can be derived from plants and fungi, such as psilocybin mushrooms and peyote cacti, or they can be synthetically produced.

#### **Common Examples**

LSD, psilocybin, mescaline, and DMT are some of the most well-known hallucinogenic substances.

#### Varied Effects

Different types of hallucinogens can produce a wide range of effects, from visual distortions to profound changes in perception and cognition.

### **Risks and Benefits**

## 01

#### **Potential Risks**

Hallucinogens can lead to unpredictable and intense experiences, potentially causing anxiety, paranoia, and even psychotic episodes in some individuals.

### 02

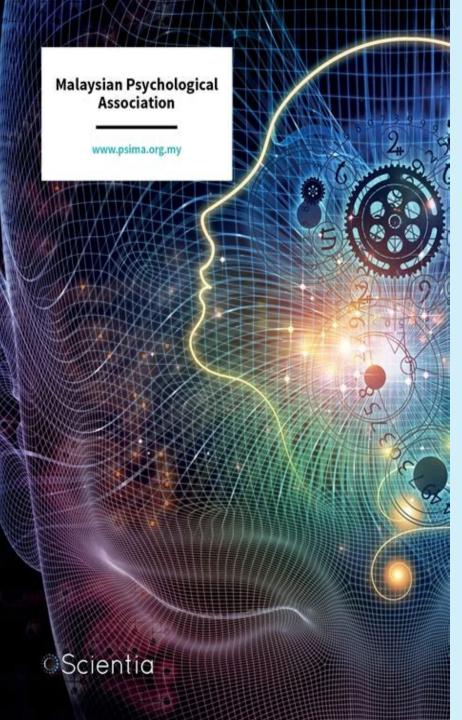
#### **Therapeutic Potential**

Research has shown promising results for the use of certain hallucinogens in the treatment of mental health conditions, such as depression, anxiety, and PTSD.

## 03

#### Legal Status

The legal status of hallucinogens varies widely, with some substances classified as illegal drugs and others being explored for their therapeutic potential.



### **Psychological Effects**

#### **Emotional Intensity**

Hallucinogens can evoke intense emotional states, ranging from euphoria and bliss to anxiety and fear.

#### **Cognitive Flexibility**

Users may experience enhanced creativity, novel thought patterns, and a sense of mental flexibility during the psychedelic experience.

#### **Integration Challenges**

Processing and integrating the insights gained from the psychedelic experience can pose challenges for some individuals.

### **Potential Risks of Hallucinogen Use**

## 01

#### **Psychological Distress**

Hallucinogens can induce acute anxiety, panic, and paranoia, particularly in individuals predisposed to mental health conditions.

### 02

#### Hazardous Behaviors

Impaired judgment and distorted perception can lead to risky behaviors and accidents during the psychedelic experience.

## 03

#### Flashbacks and HPPD

Some individuals may experience persistent perceptual disturbances, known as hallucinogen persisting perception disorder (HPPD), following hallucinogen use.

# MDMA

### **MDMA** Overview

## 01

### Stimulant and Hallucinogen

MDMA acts as both a stimulant and a psychedelic, producing an energizing effect and distortions in time and perception.

### 02

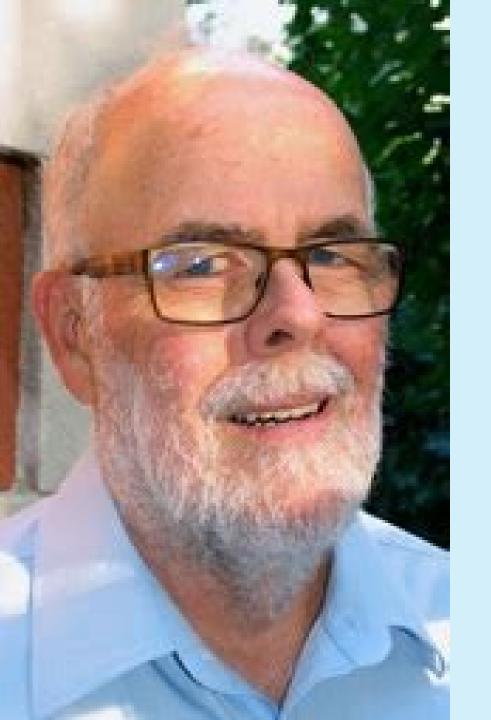
#### Synthetic Drug

MDMA is a synthetic drug that is known for its ability to enhance sensory perception and emotional experiences.

## 03

#### Common Street Names

MDMA is also known as Ecstasy, Molly, or Mandy, and is often found in pill or powder form with various logos and colors.



### **Historical Context**

#### Popularity and Usage

MDMA, commonly known as Ecstasy, has been used by millions of people across the country, particularly in party and club settings.

#### **Illicit Drug**

It is important to note that MDMA is an illegal drug and is often taken recreationally for its psychoactive effects.

#### **Risks of Adulteration**

Drugs sold as MDMA may not contain any methylenedioxymethamphetamine (MDMA) and can be a mix of other substances, such as amphetamine or paramethoxyamphetamine (PMA).

### **Physical and Psychological Effects**

## 01

#### Empathogen-Entactogen

MDMA is a potent empathogen-entactogen, known for its ability to produce feelings of empathy, emotional openness, and increased sociability.

### 02

#### **Energizing Properties**

Users experience increased energy, emotional warmth, and distorted sensory and time perception.

## 03

#### **Potential Risks**

Prolonged use of MDMA can lead to adverse effects on mood, memory, and other cognitive functions.



## Archives of Public Health



### **Health Implications**

#### Neurotoxicity

MDMA has been associated with neurotoxic effects, particularly on the serotonin system, which can lead to long-term changes in brain function.

#### **Psychological Risks**

Chronic use of MDMA can result in depression, anxiety, and other mental health issues.

#### Addiction and Dependence

While MDMA is not considered as addictive as other substances, it can lead to dependence and withdrawal symptoms.



### Short-Term and Long-Term Risks

#### Short-Term Effects

Immediate effects of MDMA use include increased heart rate, jaw clenching, nausea, and blurred vision.

#### Long-Term Consequences

Chronic use can lead to memory problems, cognitive deficits, and mood disturbances.

#### Polydrug Use

MDMA is often used in combination with other substances, increasing the risk of adverse effects and overdose.

### **Impact on Mental Health**

## 01

#### **Psychological Distress**

MDMA use has been linked to increased anxiety, depression, and other mental health issues.

### 02

#### **Psychiatric Disorders**

Individuals with pre-existing mental health conditions may experience exacerbation of symptoms with MDMA use.

## 03

#### **Therapeutic Potential**

Despite the risks, there is ongoing research into the potential therapeutic benefits of MDMA for certain mental health conditions.

# Narcotic Analgesics

### **Definition and Types of Narcotic Analgesics**





### Definition of Narcotic Analgesics

Narcotic analgesics, also known as opioids, are a class of medications used to manage moderate to severe pain.

#### **Types of Narcotic Analgesics**

They include natural opioids like morphine and codeine, semisynthetic opioids such as oxycodone and hydrocodone, and synthetic opioids like fentanyl and tramadol.

#### **Mechanism of Action**

Narcotic analgesics bind to opioid receptors in the central and peripheral nervous systems, blocking pain signals and producing pain relief.

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### Indications for Narcotic Analgesics

#### Management of Acute Pain

Narcotic analgesics are used to provide relief from acute pain due to injuries, surgeries, or medical procedures.

#### **Treatment of Chronic Pain**

They are also indicated for the management of chronic pain conditions such as cancer-related pain or severe musculoskeletal pain.

#### End-of-Life Care

Narcotic analgesics play a crucial role in palliative care to alleviate severe pain in terminally ill patients.



### Narcotic Analgesics

#### Pain Relief

Narcotic analgesics are potent pain-relieving medications derived from opium or synthetic opioids.

#### **Opioid Crisis**

Opioids like heroin, fentanyl, and prescription painkillers contribute to a widespread public health crisis.

#### **Overdose Risk**

Misuse of narcotic analgesics can lead to respiratory depression and fatal overdoses.

### **Risks and Side Effects**

## 01

#### **Risk of Dependence**

Prolonged use of narcotic analgesics can lead to physical dependence and addiction.

### 02

#### **Common Side Effects**

These may include drowsiness, constipation, nausea, and respiratory depression.

## 03

#### **Overdose and Toxicity**

Improper use or overdose of narcotic analgesics can result in life-threatening respiratory depression and even death.



# Heroin

### What is Heroin?

## 01

#### **Derived from Morphine**

Heroin is an opioid drug derived from morphine, a natural substance extracted from opium poppy plants.

### 02

#### **Highly Addictive**

Heroin is a rapidly acting opioid and is known for its highly addictive nature, leading to severe physical and psychological dependence.

## 03

#### Methods of Consumption

Heroin can be injected, snorted, or smoked, and its use has far-reaching repercussions beyond the individual user.

### **Heroin Manufacturing Process**







#### **Opium Poppy Cultivation**

Heroin is derived from the seed pod of opium poppy plants, primarily grown in Southeast and Southwest Asia.

#### **Morphine Extraction**

The natural substance morphine is extracted from the opium poppy plants and further processed to create heroin.

### Long-term effects of Heroin Central -- Addiction - Tolerance - Dependence Respiratory - Pneumonia - Infection of heart lining and valves

#### Circulatory

- Collapsed veins
- Liver-- Decreased

Heart

- function
- Systemic - Abscesses

### Heroin Use and Effects

#### **Immediate Effects**

Heroin use leads to a surge of pleasure and euphoria, followed by drowsiness, clouded mental functioning, and nausea.

#### Long-term Health Effects

Chronic heroin use can lead to collapsed veins, bacterial infections, abscesses, and liver or kidney disease.

#### Social Impact

Heroin addiction can have devastating effects on families, communities, and society at large.

## Fentanyl



### What is Fentanyl?

## 01

#### Potent Synthetic Opioid

Fentanyl is a synthetic opioid drug that is 50 to 100 times more potent than morphine, approved for use as an analgesic and anesthetic.

### 02

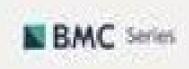
#### Medical Use

It is prescribed by doctors to manage severe pain, especially after surgery and for advanced-stage illnesses.

## 03

#### **Risks and Dangers**

Fentanyl poses a high risk of overdose and addiction due to its potency and potential for misuse.



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### The Impact of Fentanyl

#### **Public Health Crisis**

Fentanyl contributes to the opioid epidemic, leading to a significant increase in overdose deaths.

#### **Lethal Potency**

Its high potency increases the risk of accidental overdoses, even in small amounts.

#### Synthetic Opioid Category

Fentanyl is classified as a synthetic opioid, with both pharmaceutical and illicit forms contributing to the crisis.

### **Fentanyl Abuse and Misuse**

## 01

#### **Illicit Production**

Illegally manufactured fentanyl is often mixed with other drugs, increasing the risk of overdose.

### 02

#### Street Names and Forms

Fentanyl is sold under various street names and forms, including powder, pills, and counterfeit prescription drugs.

## 03

#### Impact on Communities

Fentanyl misuse affects individuals, families, and communities, leading to devastating consequences.

### **Opioid Epidemic Overview**



#### Scope of the Crisis

The opioid epidemic in the United States has been exacerbated by the rise of fentanyl-related overdoses.





#### Public Health Impact

Fentanyl contributes to a high number of opioid-related deaths and emergency room visits.

#### Challenges in Addressing the Crisis

The potency and availability of fentanyl present unique challenges in combating the opioid epidemic.



### Fentanyl and Overdose Risks

#### **Lethal Dangers**

Fentanyl's potency increases the risk of fatal overdoses, especially when mixed with other substances.

#### First Responders' Challenges

First responders face increased risks when encountering fentanyl-related emergencies due to its potency.

#### **Community Awareness**

Educating the public about the risks of fentanyl and overdose prevention is crucial in addressing the crisis.

## Disassociative Anagelics

### **Definition and Types**

## 01

#### Definition of Disassociative Anagelics

Disassociative anagelics are a class of psychoactive substances that induce a state of disconnection from reality, altering perception, and producing feelings of detachment.

### 02

#### **Common Types**

Examples of disassociative anagelics include ketamine, phencyclidine (PCP), and dextromethorphan (DXM).

## 03

#### **Effects on Perception**

These substances can cause hallucinations, distortions of time and space, and a sense of being disconnected from the body.



### Medical and Recreational Use

#### **Medical Applications**

Disassociative anagelics are used in anesthesia and pain management due to their ability to induce a trance-like state and alleviate pain.

#### **Recreational Use**

Some individuals use these substances for recreational purposes, seeking altered states of consciousness and euphoria.

#### **Risks and Dangers**

Misuse of disassociative anagelics can lead to psychological dependence, cognitive impairment, and adverse health effects.

### **Impact on Brain Function**



### Neurotransmitter Modulation

Disassociative anagelics affect neurotransmitter systems, leading to altered perception and cognitive function.



#### Neuroplasticity

Prolonged use of these substances may impact brain plasticity and cognitive flexibility.

#### **Psychological States**

The substances can induce states of depersonalization and derealization, altering the individual's sense of self and reality.

### **Cognitive and Emotional Impact**

## 01

#### Cognitive Impairment

Prolonged use of disassociative anagelics may lead to cognitive deficits, affecting memory, attention, and executive function.

### 02

#### **Emotional Regulation**

The substances can influence emotional processing, potentially exacerbating or alleviating mood disorders.

## 03

#### Long-Term Psychological Effects

Understanding the long-term impact on psychological well-being is crucial for assessing the overall risks and benefits.



## Ketamine

### What is Ketamine?



#### Anesthetic and Analgesic

Ketamine is a dissociative anesthetic used for anesthesia induction and pain management in medical settings.





### Hallucinogenic Effects

The drug can cause hallucinations and distortions in sight and sound, leading to a disconnected feeling.

### Approved Medical Uses

Ketamine is used in human and veterinary medicine for its anesthetic properties.

### Ketamine

## 01

#### **Anesthetic Properties**

Ketamine is used in medical settings for anesthesia and pain control.

### 02

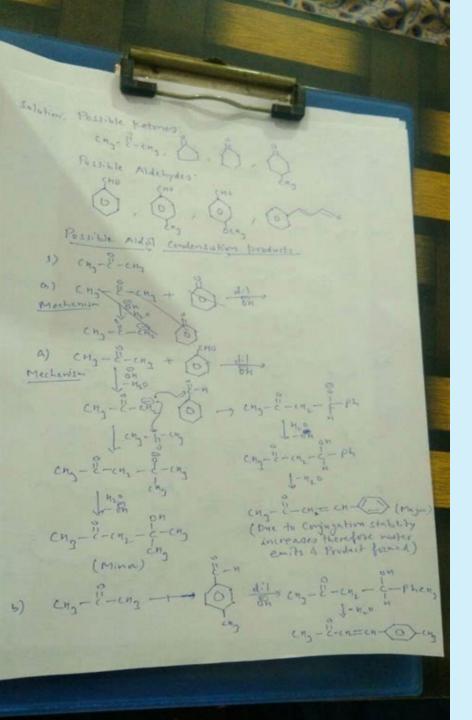
#### **Recreational Use**

Illicitly, ketamine is abused for its dissociative and hallucinogenic effects.

### 03

#### Health Concerns

Misuse can lead to cognitive impairment, addiction, and bladder issues.



### **Mechanism of Action**

#### NMDA Receptor Antagonist

Ketamine on blocking brain receptors leading to its dissociative and anesthetic effects.

#### **Rapid Onset**

It has a quick onset of action, making it suitable for emergency medical procedures and acute pain management.

#### Potential for Abuse

The drug's rapid action and dissociative effects contribute to its potential for misuse and addiction.

### **Therapeutic Uses**

## 01

#### Treatment-Resistant Depression

Ketamine has shown promise in treating depression, particularly in individuals who do not respond to traditional antidepressants.

### 02

#### Pain Management

It is used for managing chronic pain conditions, such as complex regional pain syndrome (CRPS) and neuropathic pain.

## 03

#### Research on Suicidal Ideation

Studies have explored ketamine's potential in rapidly reducing suicidal thoughts in individuals with severe depression.

### **Ketamine Abuse Symptoms**

## 01

#### **Physical Symptoms**

Ketamine abuse may lead to impaired motor function, high blood pressure, and respiratory issues.

### 02

#### **Psychological Effects**

Users may experience hallucinations, delirium, and dissociation from reality.

### 03

#### **Behavioral Signs**

Ketamine abuse can result in erratic behavior, social withdrawal, and neglect of responsibilities.

# Addressing Illicit Substance Abuse

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### **Education and Awareness**

## 01

#### **Preventive Education**

Informing the public about the risks and consequences of illicit drug use.

### 02

#### Youth Outreach

Targeted programs to educate and engage young people in substance abuse prevention.

### 03

#### **Stigma Reduction**

Promoting understanding and empathy towards individuals struggling with addiction.

### **Treatment and Recovery**

## 01

#### **Integrated** Care

Holistic treatment approaches addressing physical, mental, and social aspects of addiction.

### 02

Therapeutic Interventions

Behavioral therapies and counseling to support recovery and relapse prevention.

### 03

#### Support Networks

Building strong support systems for individuals in recovery and their families.

### **Policy and Advocacy**

## 01

#### Legislative Reforms

Advocating for evidencebased drug policies and criminal justice reforms.

### 02

### Harm Reduction Advocacy

Supporting harm reduction initiatives and access to overdose prevention tools.

### 03

### Community Empowerment

Engaging communities in advocacy efforts to address substance abuse.

### **Public Health Collaboration**

## 01

#### Intersectoral Collaboration

Coordinated efforts among healthcare, law enforcement, and social services.

### 02

#### Research and Innovation

Investing in research to develop effective prevention and treatment strategies.

### 03

#### **Global Cooperation**

Addressing illicit substance abuse as a global public health challenge through international collaboration.

# Questions????