Chapter 10: Substance-Related Disorders

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Why Study Substance Abuse

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- & Problem on Campus
- & Problem in the Community
- Veroblem in Therapy
- **Whealth Problems**
- & Performance Enhancing Drugs

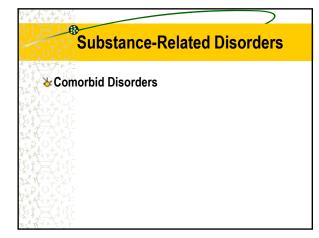
Classification of Substance-Related Disorders

- **Substance Use Disorders**
 - Involve maladaptive use of psychoactive substances
- **&**Substance-Induced Disorders
 - Disorders that can be brought about by using psychoactive substances
- **Substance Dependence**
- Identified by dependence that impairs social or
- occupational functioning

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	CURTAILS or gives up important social, occu- pational, or recreational activities because of substance or activity	-			_				_												1	1
	USES substance or does activity despite persistent social, psychological, or physical problems caused by substance or activity	1	1	1	1	1	J	1	./	1	1	1	1	1	1	1	1	1	J		1	1
	NEEDS more and more of substance or activity to achieve the same effect (tolerance)	J	1	1	J	1	J	J				J										
1010101	SUFFERS characteristic withdrawal symptoms when activity or substance is discontinued (cravings, anxiety, depression, jitters)	1	J	1	1	1	J	1				J		1	1	1	1	1	J		1	1
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	* Methamphetamine t Benzodiazepines	~	~	~	~	~	~	~				/					Rese	arch	۱ by ۱	/aler	ie Fa	





Addiction, Physiological Dependence and Psychological Dependence

Addiction

 Habitual or compulsive use of a drug accompanied by evidence of physiological dependence

& Physiological Dependence

- Condition in which the drug user's body comes to depend on a steady supply of the substance

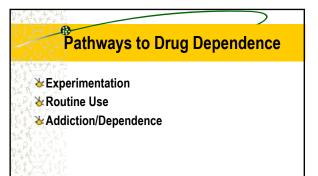
Addiction, Physiological Dependence and Psychological Dependence

& Psychological dependence

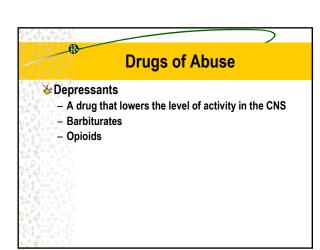
- Compulsive use of a substance to meet a psychological need
- **Substance** Abuse
 - Behavioral Characteristics

Racial/Ethnic Differences

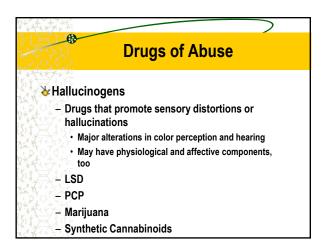
Despite the stereotype, drug dependence is not more prevalent in minorities



Substance Abuse Residual category Four characteristics: Recurrent substance abuse resulting in a failure to fulfill major role obligations Recurrent substance abuse in situations in which it is physically hazardous Recurrent substance use-related legal problems Continued use despite problems

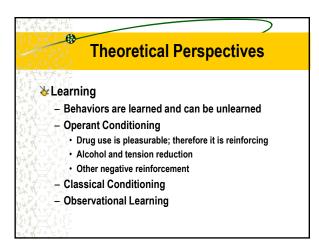


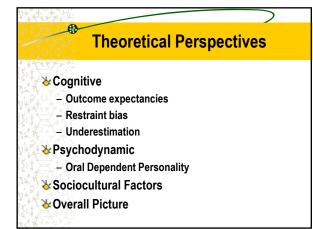
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	Drugs of Abuse	
& Stimulant	s	
- Drugs tl	hat stimulate the CNS	
Amphet		
- Ecstasy	,	
- Cocaine)	
- Nicotine	9	
- ADHD N	ledications	
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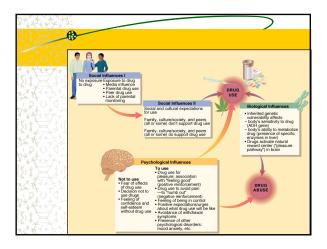


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Substances with Bot	h Abuse and Dependence
Alcohol	≽Inhalants
Amphetamines	∛ Opioids
👌 🍐 Cannabis	≽ PCP
🎸 🎸 Cocaine	∛ Sedatives
& Hallucinogens	
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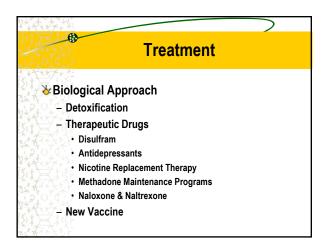
	Theoretical Pers	pectives
• D • B – Gen • F • T • T	gical protransmitters Dopamine system Brain changes with long-term use netic factors Family studies Win studies Animal studies Other evidence	3

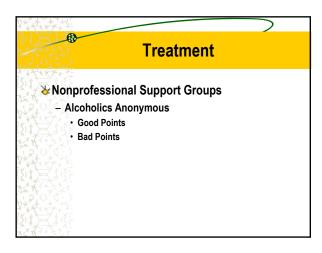


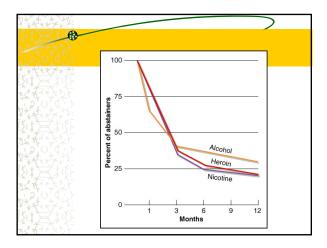




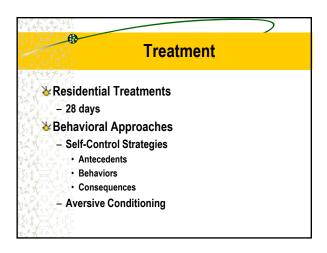


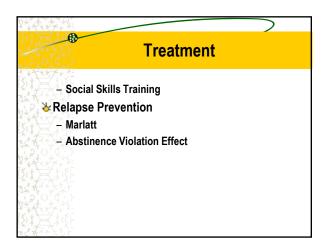


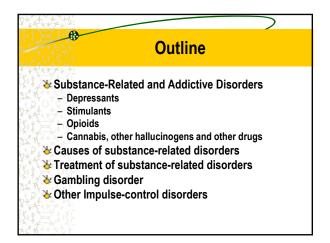


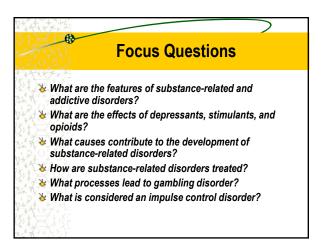












Perspectives on Substance Use Disorders

- The nature of substance use disorders
 - Abuse of psychoactive substances
 - Wide-ranging physiological, psychological, and behavioral effects
 - Associated with impairment and significant costs

Perspectives on Substance-Related Disorders, Part 1

- Some important terms and distinctions
 - Substance use
 - Taking moderate amounts of a substance in a way
 that doesn't interfere with functioning
 - Substance intoxication
 - Physical reaction to a substance (e.g., being drunk)
 - Substance abuse
 - Use in a way that is dangerous or causes substantial impairment (e.g., affecting job or relationships)

Perspectives on Substance-Related Disorders, Part 2

- **&** Substance dependence
 - May be defined by tolerance and withdrawal
 - Sometimes defined by drug-seeking behavior
 - (e.g., spending too much money on substance)
- **Tolerance**
 - Needing more of a substance to get the same
 - effect/reduced effects from the same amount

👌 Withdrawal

- Physical symptom reaction when substance is

Five Main Categories of Substances, Part 1

WDepressants

 Behavioral sedation (e.g., alcohol, sedative, anxiolytic drugs)

& Stimulants

- Increase alertness and elevate mood
- (e.g., cocaine, nicotine)

Five Main Categories of Substances, Part 2

VOpiates

-

 Produce analgesia and euphoria (e.g., heroin, morphine, codeine)

WHallucinogens

Alter sensory perception (e.g., marijuana, LSD)

Vother drugs of abuse

- Include inhalants, anabolic steroids, medications

Substance Use Disorders in DSM-5, Part 1

- Pattern of substance use leading to significant impairment and distress
- Symptoms (need 2+ within a year)
 - Taking more of the substance than intended
 - Desire to cut down use
 - Excessive time spent using/acquiring/recovering
 - Craving for the substance
- Role disruption (e.g., can't perform at work)
- Interpersonal problems

Substance Use Disorders in DSM-5, Part 2

- Pattern of substance use leading to significant impairment and distress
- Symptoms (need 2+ within a year)
 - Reduction of important activities
 - Use in physically hazardous situations (e.g., driving)
 - Keep using despite causing physical or
 - psychological problems
 - Tolerance Withdrawal

Substance Use Disorders in DSM-5, Part 3

- &DSM-5 now spells out criteria for:
 - Substance intoxication for different types of substances (e.g., alcohol, stimulants)
 - Substance use disorders for different types of substances
 - Withdrawal from different types of substances

The Depressants: Alcohol-Related Disorders, Part 1

Psychological and physiological effects of alcohol

- Central nervous system depressant

- Influences several neurotransmitter systems

- Specific target is GABA

• Increases inhibitory effects—makes neural cells worse at firing

The Depressants: Alcohol-Related Disorders, Part 2

Effects of chronic alcohol use

- Alcohol intoxication and withdrawal
- Associated brain conditions—dementia and Wernicke's disease
- Fetal alcohol syndrome
 - Developmental problems due to mother's consumption of alcohol when child is in the womb

DSM-5 Criteria: Alcohol Use Disorder, Part 1

A problematic pattern of alcohol use leading to clinically significant impairment or distress, as manifested by at least two of the following occurring within a 12-month period:

- (1) Alcohol is often taken in larger amounts or over a longer period than was intended.
- (2) There is a persistent desire or unsuccessful
- efforts to cut down or control alcohol use.
- (3) A great deal of time is spent in activities
- necessary to obtain alcohol, use alcohol, or

Alcohol Use Disorder, Part 2 (4) Craving, or a strong desire or urge to use alcohol. (5) Recurrent alcohol use resulting in a failure to fulfill major role obligations at work, school, or home.

(6) Continued alcohol use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of alcohol.

(7) Important social, occupational, or recreational activities are given up or reduced because of

DSM-5 Criteria: Alcohol Use Disorder, Part 3

(9) Alcohol use is continued despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by alcohol

(10) Tolerance, as defined by: either/both a need for markedly increased amounts of alcohol to achieve intoxication or desired effect or a markedly diminished effect with continued use of the same amount of alcohol (11) Withdrawal, as manifested by

• (a) the characteristic withdrawal syndrome for

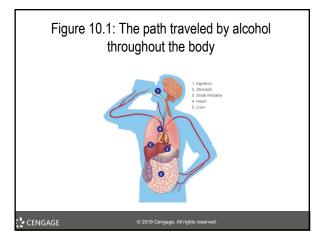
DSM-5 Criteria: Alcohol Use Disorder, Part 4

Specify current severity:

Mild: Presence of 2–3 symptoms

- Moderate: Presence of 4–5 symptoms
- Severe: Presence of 6 or more symptoms

From American Psychiatric Association. (2013). Diagnostic and statistical manual of mental disorders (5th ed.). Washington, DC.

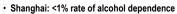


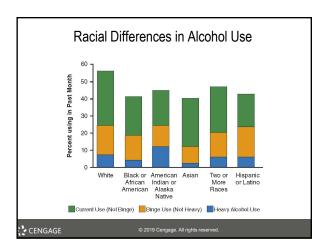
Alcohol: Some Facts and Statistics, Part 1

Win the United States

- most adults consider themselves light drinkers.
- alcohol use is highest among Caucasian Americans (56.8%).
- males use and abuse alcohol more than females.
- 23% of Americans report binge drinking
- violence is associated with alcohol.
- Alcohol alone does not cause aggression









Sedative, Hypnotic, or Anxiolytic-Related Disorders: An Overview, Part 1 The nature of drugs in this class - Sedatives—calming (e.g., barbiturates) - Hypnotic—sleep inducing - Anxiolytic—anxiety reducing (e.g., benzodiazepines)

Sedative, Hypnotic, or Anxiolytic-Related Disorders: An Overview,

Part 2

Effects are similar to large doses of alcohol
 Combining such drugs with alcohol is

- synergistic All exert their influence via the GABA
- neurotransmitter system
- **WDSM-5** criteria for this class of disorders
 - Same as for other classes of drugs (i.e.,
 - significant interference or distress accompanied by problems such as reduced activities or tolerance)

DSM-5 Criteria: Sedative, Hypnotic, or Anxiolytic-Related Disorders, Part 1

 A problematic pattern of sedative, hypnotic, or anxiolytic use leading to clinically significant impairment or distress, as manifested by at least two of the following, occurring within a 12-month period: (1) Sedatives, hypnotics, or anxiolytics are often taken in larger amounts or over a longer period than was intended.
 (2) There is a persistent desire or unsuccessful efforts to cut down or control sedative, hypnotic, or anxiolytic use.
 (3) A great deal of time is spent in activities necessary to obtain the sedative; use the sedative, hypnotic, or anxiolytic; or recover from its effects.

DSM-5 Criteria: Sedative, Hypnotic, or Anxiolytic-Related

Disorders, Part 2

(4) Craving, or a strong desire to use the sedative, hypnotic, or anxiolytic.

(5) Recurrent sedative, hypnotic, or anxiolytic use resulting in a failure to fulfill major role obligations at work, school, or home.

(6) Continued sedative, hypnotic, or anxiolytic use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of sedatives, hypnotics, or anxiolytics.

DSM-5 Criteria: Sedative, Hypnotic, or Anxiolytic-Related Disorders, Part 3

(7) important social, occupational, or recreational activities are given up or reduced because of sedative, hypnotic, or anxiolytic use

(8) recurrent sedative, hypnotic, or anxiolytic use

in situations in which it is physically hazardous

(9) sedative, hypnotic, or anxiolytic use is

continued despite knowledge of having a persistent physical or psychological problem that

is likely to have been caused or exacerbated by the

sedative, hypnotic, or anxiolytic

DSM-5 Criteria: Sedative, Hypnotic, or Anxiolytic-Related Disorders, Part 4

(10) tolerance, as defined by either (a) a need for markedly increased amounts of sedative, hypnotic, or anxiolytic to achieve intoxication or desired effect or (b) a markedly diminished effect with continued use of the same amount of sedative, hypnotic or anxiolytic (11) withdrawal, as manifested by either (a) the characteristic withdrawal syndrome for sedatives, hypnotics, or anxiolytics or (b) sedatives, hypnotics, or anxiolytics are taken to relieve or avoid withdrawal symptoms

DSM-5 Criteria: Sedative, Hypnotic, or Anxiolytic-Related

Disorders, Part 5

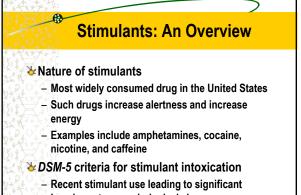
Specify current severity

Mild: Presence of 2–3 symptoms

Moderate: Presence of 4–5 symptoms

Severe: Presence of 6 or more symptoms

From American Psychiatric Association. (2013). Diagnostic and statistical manual of mental disorders (5th ed.). Washington, DC.



- impairment or psychological changes
- Accompanied by physical changes (e.g., change in

Stimulants: Amphetamine Use Disorders, Part 1

- >> Effects of amphetamines
 - Produce elation, vigor, reduce fatigue
 - Such effects are usually followed by extreme fatigue and depression
- & Amphetamines stimulate CNS by
 - Enhancing release of norepinephrine and
 - dopamine
 - Reuptake is subsequently blocked
- E

Stimulants: Amphetamine Use Disorders, Part 2

- Some ADHD drugs are mild stimulants
 - E.g., Adderall, Ritalin
- Tecstasy and crystal meth
 - Amphetamine effects, but without the crash
 - Both drugs have a high risk of dependence

DSM-5 Criteria: Stimulant Use A pattern of amphetamine type substance, octaine, or other

- stimulant use leading to clinically significant impairment or distress, as manifested by at least two of the following, occurring within a 12month period:
- (1) The stimulant is often taken in larger amounts or over a longer period than was intended
- (2) There is a persistent desire or unsuccessful efforts to cut down or control stimulant use
- (3) A great deal of time is spent in activities necessary to obtain the
- stimulant, use the stimulant, or recover from its effects
- (4) Craving, or a strong desire or urge to use the stimulant

Continued stimulant use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of the stimulant (7) Important social, occupational, or recreational activities are given up or reduced because of stimulant use (8) Recurrent stimulant use in situations in which it is physically hazardous

(9) Stimulant use is continued despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by the stimulant

DSM-5 Criteria: Stimulant Use Disorder, Part 3

(10) Tolerance, as defined by either (a) a need for markedly increased amounts of the stimulant to achieve intoxication or desired effect or (b) a markedly diminished effect with continued use of the same amount of the stimulant

(11) Withdrawal, as manifested by either (a) the characteristic withdrawal syndrome for the stimulant or (b) the stimulant is taken to relieve or avoid withdrawal symptoms

DSM-5 Criteria: Stimulant Use Disorder, Part 4

Specify current severity

Mild: Presence of 2–3 symptoms

Moderate: Presence of 4–5 symptoms

Severe: Presence of 6 or more symptoms

From American Psychiatric Association. (2013). Diagnostic and statistical manual of mental disorders (5th ed.). Washington, D.C.

Stimulants: Cocaine-Related Disorders

W Effects of cocaine

- Short-lived sensations of elation, vigor, reduce fatigue
- Effects result from blocking the reuptake of dopamine
- Highly addictive, but addiction develops slowly
- 1.9 million report use in the United States each year
 Wost cycle through patterns of tolerance and

withdrawal

 Withdrawal characterized by apathy and boredom > leads to desire to use again

Stimulants: Nicotine-Related Disorders, Part 1

Seffects of nicotine

- Stimulates nicotinic acetylcholine receptors in CNS
- Results in sensations of relaxation, wellness, pleasure
- Highly addictive
- Relapse rates equal to those seen with alcohol and heroin

Stimulants: Nicotine-Related Disorders, Part 2

- Nicotine users dose themselves to maintain a steady state of nicotine
- Smoking has complex relationship to negative affect
 - Appears to help improve mood in short term
 - Depression occurs more in those with nicotine dependence

DSM-5 Criteria: Tobacco Use Disorder, Part 1 (1 of 2) A problematic pattern of tobacco use leading to clinically significant impairment or distress, as manifested by at least two of the following, occurring within a 12-month period: (1) Tobacco is often taken in larger amounts or over a longer period than was intended (2) There is a persistent desire or unsuccessful efforts to cut down or control tobacco use (3) A great deal of time is spent in activities necessary to obtain or use tobacco

(4) Craving, or a strong desire or urge to use tobacco

DSM-5 Criteria: Tobacco Use Disorder, Part 1 (2 of 2)

(5) Recurrent tobacco use resulting in a failure to fulfill major role obligations at work, school, or home

(6) Continued tobacco use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of tobacco

(7) Important social, occupational, or recreational activities are given up or reduced because of tobacco use

(8) Recurrent tobacco use in situations in which it is physically hazardous (e.g., smoking in bed)

DSM-5 Criteria: Tobacco Use Disorder, Part 2

(9) Tobacco use is continued despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by tobacco

(10) Tolerance, as defined by either (a) a need for markedly increased amounts of tobacco to achieve the desired effect or (b) a markedly diminished effect with continued use of the same amount of tobacco

(11) Withdrawal, as manifested by either (a) the

characteristic withdrawal syndrome for tobacco or (b) tobacco (or a closely related substance such as nicotine) is taken to relieve or avoid withdrawal symptoms

DSM-5 Criteria: Tobacco Use Disorder, Part 3

Specify current severity

Mild: Presence of 2–3 symptoms

Moderate: Presence of 4–5 symptoms

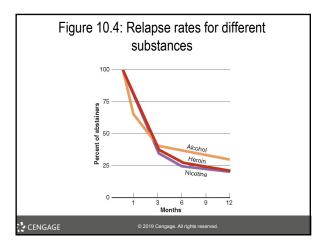
Severe: Presence of 6 or more symptoms

From American Psychiatric Association. (2013). Diagnostic and statistical manual of mental disorders (5th ed.). Washington, DC.

DSM-5 Criteria for Tobacco Withdrawal

After several weeks of daily use, unpleasant symptoms upon stopping or reducing:

- Insomnia, increased appetite, restlessness,
 trouble concentrating, anxiety and depression,
 irritability
- Symptoms lead to clinically significant distress or impairment





Stimulants: Caffeine-Related Disorders, Part 1

Seffects of caffeine—the "gentle" stimulant

- Used by over 90% of Americans
- Found in tea, coffee, cola drinks, and cocoa products
- Small doses elevate mood and reduce fatigue
- Regular use can result in tolerance and dependence
- Caffeine blocks the reuptake of the
- neurotransmitter adenosine

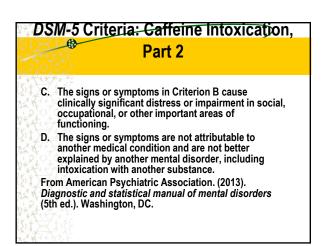
Stimulants: Caffeine-Related Disorders, Part 2

WDSM-5 Criteria for Caffeine Intoxication

- Recent caffeine consumption, possibly in excess
- Associated with physical symptoms including restlessness, anxiety, insomnia, flushed face, diuresis, GI disturbance, muscle twitching, rambling thoughts or speech, elevated or irregular heartbeat, excitement, inexhaustibility, motor agitation
- Symptoms cause clinically significant distress or impairment

DSM-5 Criteria: Caffeine Intoxication, Part 1

- A.Recent consumption of caffeine (typically a high dose well in excess of 250 mg)
- B.Five (or more) of the following signs or symptoms developing during, or shortly after, caffeine use:
 - (1) restlessness, (2) nervousness, (3) excitement,
 (4) insomnia, (5) flushed face, (6) diuresis, (7)
 gastrointestinal disturbance, (8) muscle
 twitching, (9) rambling flow of thought and
 speech, (10) tachycardia or cardiac arrhythmia,



Opioids: An Overview, Part 1

- The nature of opiates and opioids
 - Opiate—natural chemical in the opium poppy with narcotic effects
 - Opioids—natural and synthetic substances with narcotic effects
 - Often referred to as analgesics
 - Analgesic = painkiller

Opioids: An Overview, Part 2

Telects of opioids

- Activate body's enkephalins and endorphins
- Low doses induce euphoria, drowsiness, and slowed breathing
- High doses can result in death
- Withdrawal symptoms can be lasting and severe
- Wortality rates are high for opioid addicts
 - High risk for HIV infection due to shared needles

DSM-5 Criteria: Opioid Use Disorder, Part 1

A problematic pattern of opioid use leading to clinically significant impairment or distress, with at least two of the following, within a 12-month period:

(1) Opioids are often taken in larger amounts or over a longer period than was intended

(2) There is a persistent desire or unsuccessful efforts to cut down or control opioid use

(3) A great deal of time is spent in activities

necessary to obtain the opioid, use the opioid, or

DSM-5 Criteria: Opioid Use Disorder, Part 2

(5) Recurrent opioid use resulting in a failure to fulfill major role obligations at work, school, or home

(6) Continued opioid use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of opioids

(7) Important social, occupational, or recreational activities are given up or reduced because of opioid use

(8) Recurrent opioid use in situations in which it is physically bazardous

DSM-5 Criteria: Opioid Use Disorder, Part 3

(10) Tolerance, as defined by either (a) a need for markedly increased amounts of opioids to achieve intoxication or desired effect or (b) a markedly diminished effect with continued use of the same amount of an opioid (11) Withdrawal, as manifested by either (a) the

characteristic opioid withdrawal syndrome or (b) opioids are taken to relieve or avoid withdrawal syndroms becify current severity: Mild: Presence of 2 to 3 symptoms Moderate: Presence

Specify current severity: Mild: Presence of 2 to 3 symptoms Moderate: Presence of 4 to 5 symptoms Severe: Presence of 6 or more symptoms From American Psychiatric Association. (2013). *Diagnostic and statistical manual of mental disorders* (5th ed.). Washington, DC.

Hallucinogens: An Overview Nature of hallucinogens Change the way the user perceives the world May produce Delusions, paranoia, hallucinations, altered sensory perception Examples include marijuana, LSD 5–15% of people in Western countries smoke marijuana regularly

Hallucinogens: Marijuana and LSD, Part 1

を Marijuana

- Active chemical is tetrahydrocannabinol (THC)
- Symptoms mood swings, paranoia, hallucinations
- Impairment in motivation is not uncommon
- Withdrawal and dependence are rare

Hallucinogens: Marijuana and LSD, Part 2

- LSD and other hallucinogens
 - LSD is most common form of hallucinogenic drug
 - Hallucinogenic effects are much more intense than marijuana
 - Tolerance is rapid and withdrawal symptoms are uncommon
 - Can produce psychotic delusions and
 - hallucinations

BSM-5 Criteria: Cannabis Use **Disorder**, Part 1

3 A problematic pattern of cannabis use leading to clinically significant impairment or distress, as manifested by at least two of the following, occurring within a 12-month period: (1) Cannabis is often taken in larger amounts or over a longer period than intended

(2) There is a persistent desire or unsuccessful efforts to cut down or control cannabis use

(3) A great deal of time is spent in activities necessary to obtain cannabis, use cannabis, or recover from its effects

(4) Craving, or a strong desire or urge to use cannabis

- (5) Recurrent cannabis use resulting in a failure to fulfill major
- role obligations at work, school, or home

@DSM-5 Criteria: Cannabis Use **Disorder**, Part 2

(6) Continued cannabis use despite having persistent social or interpersonal problems caused by the effects of cannabis

- (7) Important social, occupational, or recreational activities are given up or reduced because of cannabis use
- (8) Recurrent cannabis use in situations in which it is physically hazardous

(9) Cannabis use is continued despite knowledge of having a persistent physical or psychological problem that is likely to have been caused by cannabis

(10) Tolerance, as defined by either (a) a need for markedly increased amounts of cannabis to achieve intoxication or desired effect or (b) a markedly diminished effect with continued use of the same amount of cannabis

BDSM-5 Criteria: Cannabis Use Disorder, Part 3

- (11) Withdrawal, as manifested by either (a) the characteristic withdrawal syndrome for cannabis or (b) cannabis (or a closely related substance) is taken to relieve or avoid withdrawal symptoms.
- taken to relieve or avoid withdrawal symptoms. Specify current severity
- Mild: Dressnes of 2.2 summer
- Mild: Presence of 2–3 symptoms
- Moderate: Presence of 4–5 symptoms
- Severe: Presence of 6 or more symptoms
- From American Psychiatric Association. (2013).
- Diagnostic and statistical manual of mental disorders (5th ed.). Washington, DC.

DSM-5 Criteria: Other Hallucinogen Use Disorder, Part 1 A problematic pattern of hallucinogen (other than phencyclidine) use leading to clinically significant impairment or distress, as manifested by at least two of the following, occurring within a 12-month period: (1) The hallucinogen is often taken in larger amounts or over a

(1) The nanochogen is often taken in anger anothis of over a longer period than intended (2) There is a persistent desire or unsuccessful efforts to cut down or control hallucinogen use

down or control hallucinogen use (3) A great deal of time is spent in activities necessary to obtain

the hallucinogen, use the hallucinogen, or recover from its effects

(4) Craving, or a strong desire or urge to use the hallucinogen

DSM-5 Criteria: Other Hallucinogen Use Disorder, Part 2 (1 of 2) (5) Recurrent hallucinogen use resulting in a failure to fulfill

major role obligations at work, school, or home

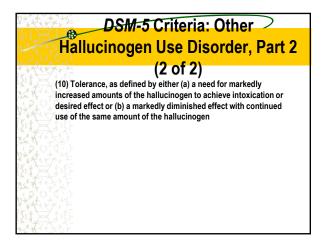
(6) Continued hallucinogen use despite having persistent or recurrent social or interpersonal problems caused or

exacerbated by the effects of the hallucinogen

(7) Important social, occupational, or recreational activities are given up or reduced because of hallucinogen use

(8) Recurrent hallucinogen use in situations in which it is physically hazardous

(9) Hallucinogen use is continued despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by the hallucinogen



DSM-5 Criteria: Other Hallucinogen Use Disorder, Part 3

Specify current severity

Mild: Presence of 2-3 symptoms

Moderate: Presence of 4–5 symptoms

Severe: Presence of 6 or more symptoms

From American Psychiatric Association. (2013).

Diagnostic and statistical manual of mental disorders (5th ed.). Washington, DC.

Other Drugs of Abuse: Inhalants, Part 1

Wature of inhalants

- Substances found in volatile solvents
- Breathed directly into lungs
- Examples
 - Spray paint, hair spray, paint thinner, gasoline, nitrous oxide

Other Drugs of Abuse: Inhalants, Part 2

- Properties and consequences
 - Rapidly absorbed
 - Effects similar to alcohol intoxication
 - Tolerance and prolonged symptoms of withdrawal are common

DSM-5 Criteria: Inhalant Use Disorder, Part 1

- substance leading to clinically significant impairment or distress, as manifested by at least two of the following, occurring within a 12-month period:
- (1) The inhalant substance is often taken in larger amounts or over a longer period than was intended
- (2) There is a persistent desire or unsuccessful efforts to cut down or control use of the inhalant substance
- (3) A great deal of time is spent in activities necessary to obtain the inhalant, use it, or recover from its effects
- (4) Craving, or a strong desire or urge to use the inhalant substance

DSM-5 Criteria: Inhalant Use Disorder, Part 2 (1 of 2)

Y 7 8 5-

(5) Recurrent use of the inhalant substance resulting in a failure to fulfill major role obligations at work, school, or home(6) Continued use of the inhalant substance despite having

(b) Continued use of the innaiant substance despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of its use

 (7) Important social, occupational, or recreational activities are given up or reduced because of use of the inhalant substance
 (8) Recurrent use of the inhalant substance in situations in which it is physically hazardous

(9) Use of the inhalant substance is continued despite knowledge of having a persistent or recurrent physical or psychological problem that is likely to have been caused or exacerbated by the substance

(10) Tolerance, as defined by either (a) a need for markedly increased amounts of inhalant substance to achieve intoxication or desired effect or (b) a markedly diminished effect with continued use of the same amount of the inhalant substance

DSM-5 Criteria: Inhalant Use Disorder, Part 3

Specify current severity

Mild: Presence of 2-3 symptoms

Moderate: Presence of 4–5 symptoms

Severe: Presence of 6 or more symptoms

From American Psychiatric Association. (2013). Diagnostic and statistical manual of mental disorders (5th ed.). Washington, DC.

Other Drugs of Abuse: Anabolic Steroids

Wature of anabolic-androgenic steroids

- Steroids are derived or synthesized from testosterone
- Used medicinally or to increase body mass
- Users may engage in cycling or stacking
- Do not produce a high
- Can result in long-term mood disturbances and physical problems

Conterned Drugs of Abuse: Designer Drugs, Part 1 Designer drugs - Drugs were originally produced by pharmaceutical companies to target diseases; then others began producing for recreational use - Cause drowsiness, pain relief and dissociative sensations • Ecstasy

- BDMPEA ("nexus")
- Ketamine ("Special K")

Other Drugs of Abuse: Designer Drugs, Part 2

- Often heighten auditory and visual perception, sense of taste/touch
- Becoming popular in large social recreational gatherings (e.g., nightclubs, raves)
- Produce tolerance and dependence

Causes of Substance-Related Disorders: Family and Genetic Influences

Write Results of family, twin, and adoption studies

- Substance abuse has a genetic component
 - Example: certain genes confer risk for heroin abuse in Latino and Black populations
- Much of the focus has been on alcoholism
 - Genetic differences in alcohol metabolism > impact which drugs are most effective for treating alcohol use disorders
- Multiple genes are involved in substance abuse

Causes of Substance-Related Disorders: Neurobiological Influences

- Wresults of neurobiological research
 - Drugs affect the "pleasure pathway" of the brain (i.e., the area that is active when receiving a reward such as food)
 - Believed to include dopaminergic system in areas of the midbrain and frontal cortex
 - GABA turns off reward-pleasure system
 - Drugs inhibit neurotransmitters that produce anxiety/negative affect
- Causes of Substance-Related Disorders: Psychological Dimensions, Part 1 & Role of positive and negative reinforcement – Early on, drug use may be seeking a euphoric
 - high (positive reinforcement)
 - Later, drug use will be seeking escape from withdrawal/crash (negative reinforcement)
 - Substance abuse as a means to cope with negative affect
 - Self-medication, tension reduction
 - Drugs offer escape from life stressors

Causes of Substance-Related Disorders: Psychological

Dimensions, Part 2

- Opponent-process theory
 - Why the crash after drug use fails to keep people from using: Drugs themselves are easiest way to alleviate feelings of withdrawal
- **& Cognitive factors**
 - Role of expectancy effects: People use drugs when they anticipate positive effects
- **Cravings**
 - Triggered by cues (mood, environment,
 - availability of drug)

Causes of Substance-Related Disorders: Social and Cultural **Dimensions**, Part 1

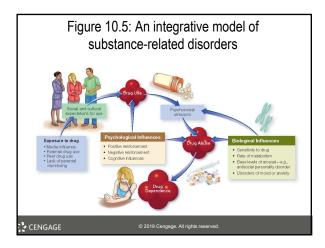
- Exposure to drugs is a prerequisite for use of drugs
 - Media, family, peers
 - Parents and the family appear critical
- Societal views about drug abuse
 - Sign of moral weakness—failure of self-control
 - Sign of a disease—caused by some underlying process

Causes of Substance-Related **Disorders: Social and Cultural Dimensions**, Part 2 The role of cultural factors

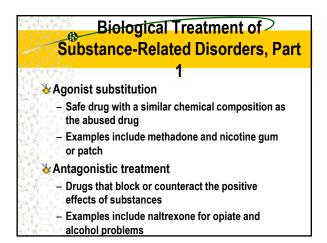
- - Influence the manifestation of substance abuse
 - Some cultures expect heavy drinking at certain social occasions (e.g., Korea)
 - Cultural expectancies of substances may influence drug-related behavior
 - If drinking is thought to increase aggressiveness, people may act in more aggressive ways after drinking

An Integrative Model of **Substance-Related Disorders**

- Exposure or access to a drug is necessary, but not sufficient
- - Social and cultural expectations
 - Positive and negative reinforcement
 - Genetic predisposition and biological factors
 - Psychosocial stressors





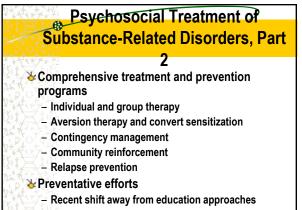


Biological Treatment of Substance-Related Disorders, Part

Aversive treatment

- Drugs that make use of substances extremely unpleasant
- Examples include antabuse and silver nitrate
- Treatment & Efficacy of biological treatment
 - Generally ineffective when used alone
 - Used to help with withdrawal symptoms





- Greater enforcement of anti-drug laws

Summary of Substance-Related Disorders, Part 1

- Cover four classes
- Depressants, stimulants, opiates, and hallucinogens
 Diagnoses include intoxication, withdrawal and
- substance use disorders

Summary of Substance-Related Disorders, Part 2

- Most substances activate the dopaminergic pleasure pathway
 - Psychosocial factors interact with biological influences
- **Treatment of substance abuse disorders**
 - Often unsuccessful
 - Highly motivated persons do best
 - Important to use comprehensive approach



significant distress or impairment

Gambling Disorder, Part 2 Gambling Disorder, Part 2 Associated with 4+ symptoms within a year: Difficulty stopping/reducing gambling Restlessness/irritability when trying to cut back Need to gamble with increasing amounts of money, Frequent preoccupation Gambling when distressed Attempting to "win it back" after a loss Lying about gambling Relying on others for financial support

- Jeopardizing a significant
- relationship/job/opportunity

DSM-5 Criteria: Gambling Disorder, Part 1

 Persistent and recurrent problematic gambling behavior leading to clinically significant impairment of distress, as indicated by four (or more) of the following in a 12-month period:

(1) Needs to gamble with increasing amounts of money in order to achieve the desired excitement(2) Is restless or irritable when attempting to cut down or stop gambling

(3) Has made repeated unsuccessful efforts to

DSM-5 Criteria: Gambling Disorder, Part 2

(5) Often gambles when feeling distressed(6) After losing money gambling, often returns another day to get even

(7) Lies to conceal the extent of involvement with gambling

(8) Has jeopardized or lost a significant

relationship, job, or educational or career opportunity because of gambling

(9) Relies on others to provide money to relieve

desperate financial situations caused by gambling

DSM-5 Criteria: Gambling Disorder, Part 3

Specify current severity

- Mild: 4–5 criteria met
- Moderate: 6-7 criteria met
- Severe: 8–9 criteria met

From American Psychiatric Association. (2013). Diagnostic and statistical manual of mental disorders (5th ed.). Washington, DC.



limits, relapse prevention

Impulse-Control Disorders, Part 1 Each is characterized by: Impairment of social and occupational functioning Increased tension/anxiety prior to the act A sense of relief following the act Include: Intermittent explosive disorder Kleptomania Pyromania

Impulse-Control Disorders, Part 2

Wintermittent explosive disorder

- Rare condition
- Characterized by frequent aggressive outbursts
- Leads to injury and/or destruction of property
- Few controlled treatment studies

Impulse-Control Disorders, Part 3

WKleptomania

- Failure to resist urge to steal unnecessary items
- Seems rare, but it is not well studied
- Highly comorbid with mood disorders
- Also co-occurs with substance-related problems

Impulse-Control Disorders, Part 4

🕹 Pyromania

- Involves having an irresistible urge to set fires
- Diagnosed in just 3% of arsonists
- Little etiological and treatment research
- Treatment usually focuses on identifying urges and practicing incompatible behaviors

Summary of Non-Substance Disorders Related to Addiction

Involve impulsive, self-destructive behaviors
 Include gambling disorder, intermittent

- explosive disorder, kleptomania, pyromania
- **& Research remains scarce**

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