

HMA

The Intersection of HIV and Substance Use: Enhancing the Care Continuum with Evidence-Based Practices

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Your participation throughout today via chat is appreciated!

Locate the chat box. On the bottom middle of your screen, click on the chat icon. This will open the 'Zoom Group Chat' pane on the right side of your screen, via will see messages throughout the webinar on there. When prompted by the presenters, type in your answers or questions there.

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UTILIZING ZOOM \gg If you would like to enable closed captions during this session, please follow the steps » On the Zoom room toolbar, tap the Captions cc icon. \gg You may need to tap the **More * * *** icon first to see the option. » Ensure that the Show Captions toggle (is enabled. » If you have any issues or questions about this feature, message Cami McIntire in the chat and she can assist you.

HOUSEKEEPING Today is Session 3 Follow-up questions? Contact Cami McIntire: cmcintire@healthmanagement.com You will be receiving a PDF of today's presentation This session is being recorded.

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CEUS AND CMES ELIGIBILITY AND DISTRIBUTION

- » This series is eligible for both CEUs and CMEs
 - These activities have been approved for CEUs by the Minnesota Board of Behavioral Health and Therapy for 3 hours of credit for LADCs and LPC/LPCCs (total of 12 hours if all four sessions are fully attended)
 - These activities have been approved for CMEs by the American Academy of Family Physicians for 3 hours of credit (total of 12 hours if all four sessions are fully attended)
- » To qualify for CEUs or CMEs, you are required to
 - 1. Complete the pre-training quiz

 - Be in attendance for the entire session
 Complete the accompanying evaluation survey for each session attended
 - 4. Complete the post-training quiz
- » CEU/CME certificates will be issued approximately 1-2 weeks AFTER the completion of the series (Session 4: May 24th).

ACKNOWLEDGMENTS



We would also like to thank our community partners for their support in developing this curriculum.













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LAND ACKNOWLEDGMENT



Every community owes its existence and vitality to generations from around the world who have contributed their hopes, dreams, and energy to making the history that led to this moment. Some were brought here against their will, some were drawn to leave their distant homes in hope of a better life, and some have lived on this land for more generations than can be counted. Truth and acknowledgment are critical to building mutual respect and connection across all barriers of heritage and difference.

We begin this effort to acknowledge what is buried by honoring the truth. We are standing on the ancestral lands of the Dakota people. We want to acknowledge the Dakota, the Object pronounced ow-jeeb-way), the Ho Chunk, and the other nations of people who also call this place home. We pay respects to their elders past and present.

Please take a moment to consider the treaties made by the Tribal nations that entitle non-Native people to live and work on traditional Native lands. Consider the many legacies of violence, displacement, migration, and settlement that bring us together here today. Please join us in uncovering such truths at any and all public events. "This is the acknowledgment join in the USDAC Honor Native Land Guider – edited to reflect this space by Shannon Geshick, MTAG, Executive Director Minnesota Indian Affairs Council

HEALTH MANAGEMENT ASSOCI

TODAY'S PRESENTERS







(she/her/hers) Managing Director Health Management Ass



Shannon Robinson, MD

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DISCLOSURES

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Faculty	Nature of Commercial Interest
Charles Robbins, MBA	Mr. Robbins discloses that he is an employee of Health Management Associates, a national research and consulting firm providing technical assistance to a diverse group of health care clients.
Linda Follenweider, MS, APRN	Ms. Follenweider discloses that she is an employee of Health Management Associates, a national research and consulting firm providing technical assistance to a diverse group of health care clients.
Shannon Robinson, MD	Dr. Robinson discloses that she is an employee of Health Management Associates, a national research and consulting firm providing technical assistance to a diverse group of health care clients.
Jeanene Smith, MD	Dr. Smith discloses that she is an employee of Health Management Associates, a national research and consulting firm providing technical assistance to a diverse group of health care clients.

AGENDA FOR WEBINAR SERIES

Session O) (D)ICs
WEDNESDAY, JULY 91
L'20 pm to 3:00 pm
Session O) HV Testing and Treatment
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Session O) HV Testing and Assessment
Session O) HV Testing and Assessment
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TIME FOR A POLL

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Please indicate the sector(s) in which you currently serve:

- Community based organizations (Social Services, HIV, LGBT, etc.)
- B. Corrections (includes Probation, Jail, Prison)
- C. County Behavioral Health, Public Health, Human Services
- D. Non-county behavioral health
- E. Federally Qualified Health Center (FQHC)
- F. Narcotic Treatment Program/Opioid Treatment Program
- G. Outpatient Treatment Program
- H. Residential Treatment Program
- Aftercare services (e.g., sober living, other recovery housing, recovery community centers, etc.)
- J. Harm Reduction Services/SSPs
- K. Other (please specify in the chat)

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TIME FOR A POLL

Please indicate your primary role or discipline:

- A. Physicians, Physician Assistant, Nurse Practitioners, Nurses (RN, LVN)
- B. Social Workers
- C. Addiction Counselors (LADCs)
- D. Peer Recovery Support Positions
- E. Substance Use Navigators (SUNs)
- F. Administrators, Program Managers
- G.Psychologists, LMFTs
- H. Criminal Justice Professionals
- I. Community Members
- J. Other (please specify in the chat)

GLOSSARY OF TERMS (REVISITED)

- » Sexual orientation a person's identity in relation to the gender or genders to which they are sexually attracted (straight, gay, lesbian, asexual, bisexual, pansexual)
- \gg Gender identity and/or expression internal perception of one's gender; how one identifies or expresses oneself.

 - We flies of expresses offeself.
 Cispender a term used to describe a person whose gender identity aligns with those typically associated with the sex assigned to them at birth.
 Transgender refers to an individual whose current gender identity and/or expression differs from the sex they were assigned at birth (may have transitioned or be transitioning in how they are living)
 - » Gender Expansive refers to an individual who expresses identity along the gender spectrum (genderqueer, gender nonconforming, nonbinary, agender, two spirit)
- >> Sexual Minority refers to a group whose sexual identity orientation or practices differ from the majority of and are marginalized by the surrounding society.

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GLOSSARY OF TERMS (REVISITED)

- » Race is usually associated with inherited physical, social and biological characteristics. In this context that means race is associated with biology. Institutionalized in a way that has profound consequences (White, African American, American Indian Alaskan Native, Native Hawaiian or Pacific Islander)"
- » Ethnicity a term used to categorize a group of people with whom you share learned characteristics and identify according to common racial, national tribal, religious, linguistic, or cultural origin or background. (Hispanic, Non-Hispanic Black, Non-Hispanic Black, etc.)

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COMMON ACRONYMS (REVISITED)

ART - Antiretroviral therapy PEP - Post-exposure prophylaxis PrEP - Pre-exposure prophylaxis AUD - Alcohol use disorder IDU - Injection or intravenous drug usePLWH - Person(s) living with HIV MSM – Men who have sex with men PWID – Person(s) who injects drugs OUD - Opioid use disorder SUD - Substance use disorder PEH - Person(s) experiencing

WORKING WITH JUSTICE-INVOLVE INDIVIDUALS

LEARNING OBJECTIVES: WORKING WITH JUSTICE-INVOLVED INDIVIDUALS II Describe the importance of substance use disorder treatments freshmal justice settings III Compare and contrast FDA approved medications for form justice settings (AU), Opioid lies Disorder (OUO), and opioid reversal

INCARCERATION IN MIN BY FACILITY

How many Minnesota residents are locked up and where?

22,000 of Minnesota's residents are locked up in various kinds of facilities

State Prisons
11,000

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PRISON

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		sle incarcerated per 100,0		
2,400				2,648
			2,321	
2,100				
1,400				
1000		959		
700				
	216			
0	White	Hispanic	Black	American Indian/ Alaska Notice

ce/Ethnicity	Count	Percentage of incarcerated population (%)	MINNESOTA DEPARTMENT OF CORRECTIONS ADULT PRISON POPULATION SUMMARY (AS OF 07/01/2022)		
Vhite	4,010	51.2%			
lack	2,782	36.7%	Average age: 39.2		
merican ndian	725	9.3%	Average ADP 2022: 7,527		
Asian	205	2.6%	Males: 7.332 (93.6%) Females: 501 (6.4%)		
Jnknown/ Other	21	0.3%			
Total	7,833	100%			
Note: 425 (5.4% Hispanic ethnicity		e are of	https://tem.gon/doc/assemi/Add/S20Ps.co/S20Pspalador/S20Gommany/S20Ps-2002_you1086-S46664.pdf ####################################		

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MINNESOTA DEPARTMENT OF CORRECTIONS ADULT PRISON POPULATION SUMMARY (AS OF 07/01/2022)

Top Six Offenses	Count	Percentage (%)	
Criminal Sexual Conduct	1,512	19.3%	
Homicide	1,511	19.3%	
Drugs	1,203	15.4%	
Assault	690	8.8%	
Weapons	668	8.5%	
Assault - Domestic	388	5.0%	
Note: Percentages are based on the total p	opulation of 7,833.		
Releases (FY2022)	Count	Percentage (%)	
Supervised Release/Parole	3,570	77.0%	
Community Programs	683	14.7%	
Discharge	281	6.1%	
Work Release – COVID-19	55	1.2%	
Other	43	0.9%	
Cond Med Rel/Supy Release - COVID-19	7	0.2%	
		100.0%	

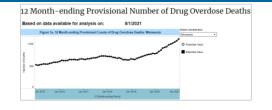
12 Month-ending Provisional Number of Drug Overdose Deaths

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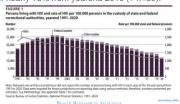
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WORSENING PROBLEM



HIV IN PRISON

An estimated 11,940 persons in the custody of state and federal correctional authorities were known to be living with HIV, a decline of nearly 16% from yearend 2019 (14,180).



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BURDEN OF SUD AND HIV IN CARCERAL SETTINGS

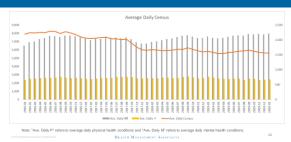
- » It is estimated that 11% of 18-25 year olds, and 6% of those over 25 years old have a substance use disorder. It is estimated that 63% of people in jall and 58% in prison have a substance use disorder.*
- » People with these disorders have challenges in getting appropriate treatment and often incarceration exacerbates their symptoms. This can lead to individuals staying incarcerated longer than those without behavioral health concerns.*
- » Many jails and prisons are moving away from forced withdrawal which has been the historic approach to SUD in carceral settings.*
- » Starting substance use disorder treatment with medications while incarcerated works better than post release.**
- better than post release."

 3 The most recent Bureau of Justice Statistics HIV in Prisons report indicates HIV prevalence is 1.3 percent among state and federal prisoners; more than three times that of the general population. One study found one in five people with HIV are incarcerated in a jail or prison each year."

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DECREASE IN JAIL POPULATION DOES NOT EQUAL DECREASE IN BURDEN OF DISEASE FOR CARCERAL SETTING



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THE PATIENT EXPERIENCE NURSING HEALTH SERVICE/TASKS PRIMARY CARE CHRONIC CARE PHARMACY DENTAL CARE MENTALHEALTH URGENT CARE COORDINATION OF OFFSITE SPECIAL CARE DETOX NARCAN SPECIALTY CARE DISCHARGE PLANNING & COMMUNITY LINKAGE FOR TRANSITION OF CARE MAT NARCAN MH AOT

TRANSITION OF CARE: DEFINITION

- » Transition of Care The movement of a patient from one setting of care (hospital, ambulatory primary care practice, ambulatory specialty care practice, long-term care, home health, rehabilitation facility) to another.
- » Narcan on release
- » Warm handoff to community provider
- Notallenges in jails and beyond

 No clear discharge date/time

 Not clear discharge date/time

 Notallenge not correlated to clinical condition

 Housing options frequently suboptimal in supporting recovery

 Overdose risk higher first two weeks post release

 Variability in provision of substance use disorder treatment with medications.

es/default/lies/d7/priv/sma16-4098.pdf HEALTH MANAGEMENT ASSOCIATES



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COMMUNITY OPPORTUNITIES TO MINIMIZE INCARCERATION

- » Early identification of individuals with mental and substance use disorders at all points of contact with the justice system – prearrest, booking, adjudication, reentry.
- »Use of screening and assessment to ensure linkage with evidence-based treatment, services and supports.
- »Diversion of individuals from the justice system into home- and community-based treatment.
- Sengaging law enforcement, first responders, and crisis management teams, justice court personnel, and community treatment providers in diversion strategies that meet both clinical and public safety needs.

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COMMUNITY OPPORTUNITIES TO MINIMIZE INCARCERATION CONT.

- » Provision of training and technical assistance for law enforcement officers, juvenile and family court judges, probation officers, and other judicial decisionmakers on behavioral health issues; and conversely, training for behavioral health treatment providers on criminogenic risk and the criminal and juvenile justice system.
- » Provision of an array of services and supports to enable successful reentry into the community for those transitioning from incarceration or detention including housing.
- » Assurance of equitable opportunities for diversion and linkage to community services and supports for all populations in order to decrease disproportionate minority contact with the justice system.
- » Promotion of cross-sector collaboration to better serve these populations dually involved with the behavioral health and criminal justice systems.

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TIME FOR A POLL

Statement: My organization has an active working process to identify and provide a soft landing into the community for patients with complex care management needs related to addiction and HIV upon release from carceral settings.

A. Yes

B. No

C. Not Sure

HEARTH MANAGEMENT ASSOCIATES

SUBSTANCE USE DISORDER TREATMENT WITH MEDICATIONS

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WHAT IS SUBSTANCE USE DISORDER TREATMENT WITH MEDICATIONS?

- » The use of FDA-approved prescription medications, usually in combination with counseling and behavioral therapies, to provide a whole-person approach to the treatment of substance use disorders (SUD).
- » When discussing medication for opioid use disorder this is frequently referred to as Medications for Opioid Use Disorder (MOUD).
- >> MOUD has proven clinically effective to alleviate symptoms of withdrawal & reduce cravings. MOUD maintenance has been proven to cut overdose rates in half and decrease rates of HIV and hepatitis C transmission.
- » Research shows that a combination of MOUD and behavioral therapies is a successful method to treat OUD.

WHICH SUBSTANCE USE DISORDERS ARE TREATED WITH MEDICATIONS? Substance Use Disorder's with FDA Approved No FDA Approved Medications Medications Cannabis Use Disorder Opioid Use Disorder Nicotine Use Disorder Stimulant Use Disorder Alcohol Use Disorder

33 34

WHY IS MOUD IMPORTANT? Address Dopamine Depletion Treat OUD/Achieve Results Reward/motivation pathway abnormalities persists for months after Muscle pain, dilated pupils, nausea, diarrhea, · Abstinence based treatment Abstinence based treatmen results in 85% using oploid within 1 year MOUD decreases Use Craving Complications from IVDU Criminal behavior MOUD increases retention in treatment abdominal cramping, piloerection Lasts 3-14 days Methadone or people stop using Treated with methadone or buprenorphine buprenorphine are recommended over abrupt cessation due to risk of return to use, overdose (OD) & death in treatment Sources: ASSM, (2005) National Practice Guidelines for the Treatment of CLID, Mattick, RP & Hell W (1998) Lancet 3-0 Mattick, RP, et al. (2005) Cochrane Systematic Resieve. Librarier, P et al. (2000) Cochrane Systematic Resieve. Kruptsky et al. (2011) Lancet 377, 1506-13. Nakke et al. (2000) Lancet 307(1905), 603-8. Rich, 30, et al. (2015) Lancet

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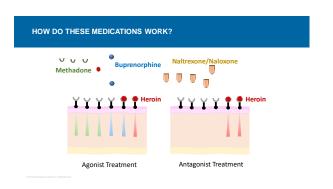
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FDA APPROVED MEDICATION FOR OUD •Methadone- approved for cough in 1940s, for OUD 1972 Naltrexone (Revia[™])- oral approved 1984; injectable (Vivitrol[™])2006 for AUD, 2010 for OUD Buprenorphine
(Suboxone™ &
Subutex™)- approved in
1981 for pain; oral
approved for OUD 2002,
patch, implants &
injection later 2010 for OUD

Naloxone- approved 1961, autoinjector 2014, nasal spray (Narcan™) 2015

Nalmefene™ - approved nasal spray 2023

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FULL,
PARTIAL, OR
NO EFFECT

Buprenorphine, Naloxone, and Naltrexone can all cause precipitated withdrawal.

Amount of Drug Used

Full agenists (e.g., heroin, fentany, methadone)

Partial agenists (e.g., heroin, fentany, methadone)

Antagonists (e.g., heroin, fentany, methadone)

Antagonists (e.g., heroin, fentany, methadone)

Antagonists (e.g., haroin, fentany, methadone)

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Delivered via observed dosing

Delivered via observed dosing

Highly monitored in a Narcotics or Opioid Treatment Program setting (NTP/OTP)

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METHADONE: EFFICACY DATA

- » Methadone resulted in 33% fewer opioid positive toxicology tests compared to those receiving no medication*
- » Everyone receiving psychosocial treatment
- » 4.4x more likely to stay in treatment *
- » Reduced crime *
- » Reduced infectious disease*
- » Reduced death**

souros: * Mattick 2009 Cochrane Review ** Wakeman 2020 JAMA Open Network



BUPRENORPHINE: WHAT AND FOR WHOM?

- » Partial mu opioid agonist with ceiling effect
 - >> Available alone or in combination w/naloxone >> Doses >32 mg don't cause greater effect
- >> Different formulations (sub-lingual [SL] buccal pill/film, injectable) » Greater binding affinity than full agonists
- Start buprenorphine when client in moderate withdrawal (to avoid causing precipitated withdrawal)
- >> Other opioids are not as effective when buprenorphine is present >> Typical dose is 16-24 mg/d
- » Increased frequency and daily dose required during pregnancy
- \gg Fewer drug-drug interactions than methadone

Opioid use disorder or withdrawal

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BUPRENORPHINE: GENERAL REGULATIONS

DEA X-Waiver updates

https://www.deadiversion.usdoj.gov/pubs/do cs/index.html

X waiver no longer required Use standard DEA number for buprenorphine prescriptions No cap on number of people treated with buprenorphine

BUPRENORPHINE EFFICACY

- » Rate of return to opioid use for persons taking placebo was 100% vs 25% for persons taking buprenorphine
- ≫ If taking ≥16mg buprenorphine you are 1.82 times more likely to stay in treatment than if on placebo
- >> Decreased death*

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NALOXONE: OD REVERSAL AGENT AS HARM REDUCTION

- » Mu opioid antagonist
- \gg Shorter half-life & more rapid onset of action than naltrexone
- » High affinity, competitive binding & displaces agonists
- » Intranasal or intramuscular by bystander
- » May require more than one dose
- » Opioids have longer half-life than naloxone
- \gg Saves lives; no evidence for increasing drug use
- >> Good Samaritan law in MN
- \gg <1% of those in need have access
- » Available over the counter

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NALOXONE RESOURCES

- » https://www.health.state.mn.us/communities/opioids/opioid-dashboard/resources.html#naloxone
- University of Minnesota Naloxone Resources https://www.pharmacy.umn.edu/degrees-and-programs/continuing-pharmacy-education/continuing-education-courses/naloxone
- » Naloxone overdose training and kits free of charge. The following community-based organizations provide Naloxone overdose training and kits free of charge:
- » Steve Rummler HOPE Network—Call 952-943-3937 or sign up for training from the Steve Rummler HOPE Network.
- » Rural AIDS Action Network (RAAN)—Call 320-257-3036.
- » Red Door Clinic—Call 612-543-5555.
- » Indigenous Peoples Task Force—Call 612-870-1723.
- » <u>Lutheran Social Services</u>—Call 800-582-5260.

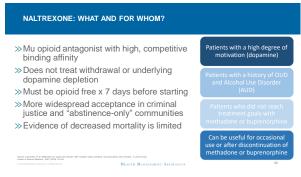
TIME FOR A POLL

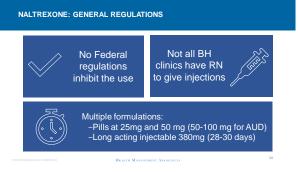
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Do you know if your organization is currently prescribing (or providing) or doing any training on naloxone?

A. Yes

C. I Don't Know





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NALTREXONE: EFFICACY DATA

- » Extended Release (XR) Naltrexone 90% opioid abstinent toxicology tests vs. 35% placebo*
 - »Decreased incarceration**
- »Does not decrease death***
- » XR Naltrexone vs usual care in HIV clinic****
 - »Fewer days of opioid use for those on XR Naltrexone

HOW LONG TO TREAT OUD?

- » Studies of all FDA approved meds for OUD indicate a risk of return to opioid use upon discontinuation of meds
- >> Year(s) post sobriety, if making appropriate changes to decrease likelihood of future substance use, stable in recovery and life and wants to discontinue
 - »Social Support that supports recovery

 - »Active in 12 step meetings or
 »Active in Self-Management and Recovery Training (SMART) meetings or »Active in church
 »Not living with people who are using
 - »Able to handle interpersonal conflicts without relapsing...
 - »Avoid tapering during big life transitions such as leaving incarceration, pregnancy or delivery, moving across the country, changing jobs

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TO TAPER OR NOT TO TAPER? According to the U.S. Surgeon General, Evidence is clear that In practice, successful successful tapers long-term or tapers from typically occur, if at indefinite treatment methadone or all, when individuals with medications for buprenorphine OUDs is often have been treated typically occur in with Medicated required for effective only about 15 percent of cases^{2,3} Assisted Treatment (MAT) for at least 3 and sustained outcomes1 years4 Named Auditions of Uniters, Egyptoming, and Medicine. (2012). Medicative de optical are disorde area lesse. Whitington, DC: The Named Auditorial Desse. Named, S., On, M., Toma, E., March, D. C., Angion, M. D., Hope, Y. L. et al. (2012). Deliving desing potent class relevance of uncessed upon tell-energy anticolories automators are nature. The energy and continuous automators area and the energy and continuous automators. The energy and continuous automators are nature of the energy and continuous automators. The energy and continuous area area are not associated as a surface and the energy and the e

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- >> www.druginserts.co
- » Healthresearchfunding.org(2019) https://healthresearchfunding.org/24-oplate-addiction-recovery-statistics/ 24 Shocking Oplate Addiction Recovery
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- >> United States Department of Justice. Office of Justice Programs. Bureau of Justice Assistance. GUIDELINES FOR MANAGING SUBSTANCE WITHDRAWAL IN JAILS A Tool for Local Government Officials, Jail Administrators, Correctional Officers, and Health Care Professionals. June 2023

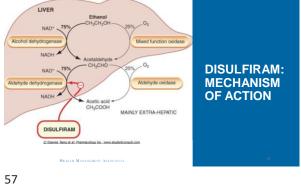
Increased retention in treatment

Decreased drinking

Decreased healthcare costs

Decreased healthcare costs

Naltrexone (oral and intramuscular)



DISULFIRAM FOR ALCOHOL USE DISORDER (AUD) » Approved decades ago; most recent data does NOT show overwhelming efficacy* » Once per day dosing » Inhibits multiple P450 and other liver enzymes » Drug Interactions: benzodiazepines, phenytoin, pimozide, tricyclic antidepressants (TCAs), warfarin, sulfonylureas, metronidazole, amoxicillin, isoniazid » Contraindications/precautions: alcohol use, hypersensitivity to rubber, severe coronary artery disease (CAD), cirrhosis, severe renal impairment, psychosis, depression, diabetes mellitus (DM), epilepsy

» Extensively metabolized

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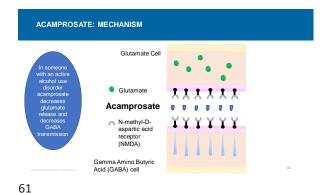
» Extensive list of side effects Source: * Garbutt JC, West SL, Carey TS, et al. Ph J Am Med Assoc. 1999; 281(14):1318-1325.

NALTREXONE FOR AUD Drug Interactions: opioids » No P450 interactions HEALTH MANAGEMENT ASSOCIATES

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NALTREXONE EFFICACY: GRADE A Oral Intramuscular Reduced drinking days Yes Yes Reduced heavy drinking days Yes Yes Decreased opioid use Yes Yes Decreased cravings Increased time to first drink Yes Yes Treatment retention Highest Lower than oral Discontinuation of medication Decreased ED visits Lower Decreased hospitalizations Lower Decreased pharmacy cost Lower Decreased nonpharmacy costs Lower

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ACAMPROSATE FOR AUD

- »Effective: Grade A recommendation
- »Three times per day dosing
- »Drug Interactions: none
- $\gg \hbox{Contraindications: severe renal impairment}$
- >> 333mg three times a day (TID) moderate renal impairment (creatinine clearance 30-50ml/m)
- >> Few side effects
- »No metabolism

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Question: Do you know anyone on medication for AUD? **TIME FOR A POLL** A. Yes B. No

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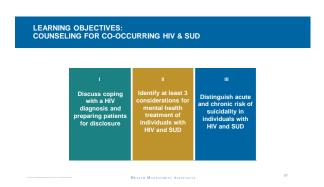
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COUNSELING FOR CO-OCCURRING HIV & SUD

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WHY IS IT IMPORTANT TO ADDRESS SUD IN PERSONS WITH HIV?

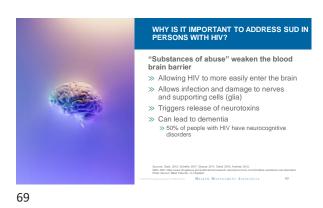
Substance use accelerates the progression of HIV

> Increases viral load

> Increases likelihood of AIDs related morbidity (even when adherent to antiretroviral medications)

> Decreases medication adherence

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HIV TESTING

- » 19% of 15-44yo in the United States were tested for HIV in the past year
- » Only one-third of SUD programs offer onsite HIV testing



holo Source: Passina me on Uniplant
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HIV TESTING RECOMMENDATIONS

- \checkmark SAMHSA recommends universal HIV testing for
 - »Persons 15-65yo (and all pregnant persons)
 - »Younger and older persons at increased risk, such as:
 - »People who inject drugs »People who have condomless sex
- ≫People who participate in commercial sex work
 ✓ US Preventative Task Force Rating A
 - »Requires Medicare and Medicaid to pay for testing
 - »Rapid tests are available- results within 30 minutes
 - »Provide pre and post test counseling- reviewed in other talks

Sources: NDA 2021 https://www.drugabuse.gov/publications/research-reports/common-comorbidities-substance-use-disorders Substance Abuse and Mentel Health Services Administration. (2021). Treating Substance Use Disorders Among People with HV. Advisor

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STTR MODEL OF CARE

- \gg Testing persons who inject drugs every 6 months is cost effective
- » Recommendation: Inpatient and outpatient mental health settings should offer routine opt out testing to improve case finding



Chart review compared to blood samples from 2 inpatient psychiatric units:
21% of patients with HIV positive blood samples did not have documentation of infection in medical record

have 160 Year Sign time displaces and project distributions and consistent and co

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EPIDEMIOLOGY- HIV & MENTAL HEALTH

- » Up to 70% of people living with HIV have a history of trauma
- >> 54% of people living with HIV have posttraumatic stress disorder (PTSD)
- » People living with HIV are twice as likely to develop depressive symptoms compared to those at risk but who are not living with HIV
- » People living with HIV experience higher rates of depression than the general population
- » Key feature of depression, as compared to adjustment disorder or side effects from medication, is loss of pleasure



EPIDEMIOLOGY- HIV & MENTAL ILLNESS

- » Twenty-two percent (22%) of people with HIV have depression
 - ≫Of those 78% ALSO have an anxiety disorder
 - »Of those 61% ALSO have an SUD
- » Six percent (6%) of people with HIV have schizophrenia, as compared to 1% of the general population
- >> Those with schizophrenia are 1.5x as likely to contract HIV

3.8x as likely to contract HIV

likely to contract HIV

Those with affective disorders were

Sources: Kessler, R.C. 2005, Andriote, JM. 2012, Gaynes, B.N. 2008, Blank M.B.2013



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Sources: Staruss, S.M. 2009 Andriote, JM. 2012

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SUD, HIV AND MENTAL ILLNESS >> Only 35% of people in 10 outpatient HIV clinics reported talking to primary care provider (PCP) about alcohol use >> < 50% of providers in hospitalbased HIV care programs conducted recommended screening and brief interventions for reducing alcohol >> Substance use may increase highrisk sexual practices

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COUNSELING: COPING WITH AN HIV DIAGNOSIS

- Coping with the diagnosis of HIV sis a form of grieving
 - sis different from having a major depressive episode
 - >>may require treatment >>support or psychotherapy >>will not respond to antidepressants

Source: Androis, JM 2012 http://www.ichtmap.com/newsharp.2021/handest-subcome-af-hir-and-suicide Photo Source: Linkedin Sales Solutions on Unplash

Manager Manager Associations

COUNSELING RECOMMENDATIONS

- 1. Don't try to solve or fix things, but....
 - · Housing is important
 - · Social support is important
 - · Medical care is important
 - · These things helps establish a sense of control over one's life
- 2. Don't minimize someone's feelings
- 3. Don't tell people to pull themselves together
- 4. Listen... for risks and for talk of the future

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CONSIDERATIONS FOR MENTAL HEALTH TREATMENT OF INDIVIDUALS WITH HIV AND SUD

- » Major Depression, among those living with HIV, responds to the same treatments:
 - » Evidence-based psychotherapy » Evidence-based medications
- » As with other conditions, keep drug-drug interactions in mind
- » Depression & bipolar disorder can make medication adherence challenging

ANTIDEPRESSANT TREATMENT OF DEPRESSION RESULTS IN LOWER HEALTHCARE COSTS

- » Persons with bipolar disorder and HIV are more likely to have unprotected intercourse with HIV negative partners
- » The risk of suicide is higher for those with HIV (at all stages) as compared to the general population

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SUD TREATMENT FOR THOSE LIVING WITH HIV

- » Cognitive Behavioral Therapy (CBT) & Motivational Interviewing (MI)
 - »Reduce drug use
 - »Reduce high risk sexual behaviors
 - »Reduce viral load
- »Improve adherence to antiretrovirals
- » Medication for opioid use disorder
 - »Methadone and buprenorphine are associated with a 54% reduction in risk of HIV infection in persons who inject drugs

SUD Treatment is HIV Prevention!

EPIDEMIOLOGY- SUICIDALITY & HIV

Suicide

- » 3rd most common cause of death in 15-29yo women
- » 4th most common cause of death in 15-29yo men
- » No relationship to income
- » A life-threatening illness is a one of the most strongly predictive factors for completed suicide
- Suicide rate in the first year after an HIV diagnosis is 5x the rate in the general population. Suicide in the first year after an HIV diagnosis accounts for 40% of all suicide in persons with HIV.

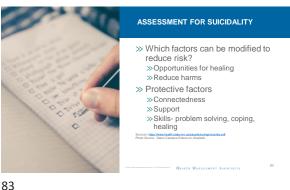
Suicide Attempt Rate
People living with HIV: 169
General Population: 3%

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RISK FACTORS FOR SUICIDE DEPARTMENT OF HEALTH Suicidal Ideation Risk Assessment
STEPS AND RESOURCES FOR EXPLORING THOUGHTS OF SUICIDE ☐ Trauma ☐ Purposeless, hopeless ☐ Triggering event- stressor ■ Poor sleep ☐ Ideation & past behavior ☐ Mood, anxiety, anger, withdrawal ☐ Health-medical, mental and Reckless, impulsive substance

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ASSESSMENT RECOMMENDATIONS

- 1. Be mindful that protective factors are unique to each person
- 2. Use the person's language
- 3. Ask open ended questions such as:
- » What are things that keep you safe?
- » When this occurred in the past what has stopped you?
- » Who are the people who lift your spirits?
- » What activities lift your spirits?
- » What would you like to develop within yourself in the future?
- 4. Try to identify protective factors that can be enhanced

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INTEGRATED PRIMARY HIV & BEHAVIORAL HEALTH CARE

Benefits of Integration

- »Increases likelihood of follow through on referrals
- »Improve physical health outcomes
- »Increased savings in healthcare cost
- »Reduce emergency room use

Ryan White HIV/ AIDS Treatment Extension Act 2009

- »Aligns with HHS guidelines
- »Mandates include:
 - 1. Universal depression and SUD screening >>MH screening rates currently are between 80%-100% >>SUD screening rates currently are much lower
 - 2. Establishment of follow up plan

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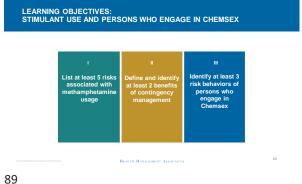
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STIMULANT USE



WHAT ARE STIMULANTS? >> Cocaine Socacine

"Psychostimulants with abuse potential"

Mahuang, ephedra & khat- plants

Pseudoephedrine, ephedrine & cathinone & cathine-chemical in above plants

"Bath salts" (synthetic man made cathinones)

Amphetamine (synthetic)

Mothamphetamine (dextro & levo)

Mothamphetamine (dextro & levo)

Mothamphetamine (dextro & levo)

Mothamphetamine (dextro & levo)

Mothamphetamine (statian "

Methythsanthines (naturally occurring)

Caffeine (coffee)

Theophylline (tea)

Theobromine (chocolate)

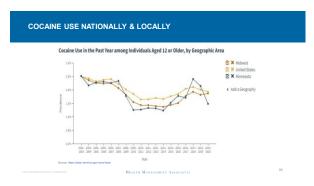
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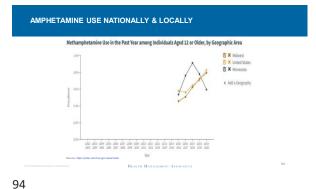
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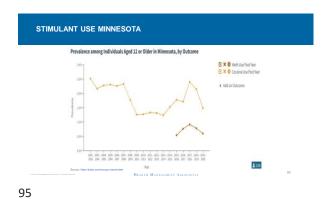
DRUG SEIZURES IN MINNESOTA VCET Drug Seizures: All in 2019 rounts libbed in grams, except for preccriptions which are lists

ADMISSIONS TO SUD TREATMENT: MN 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021

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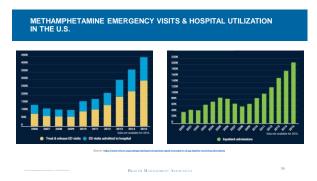
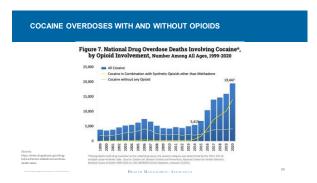


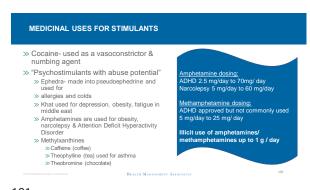


Figure 6. National Overdose Deaths Involving Psychostimulants with Abuse Potential (Primarily Methamphetamine)*, by Opioid Involvement Number Among All Ages, 1999-2020 PSYCHOSTIMULANT OVERDOSES WITH AND WITHOUT OPIOIDS 20,000 10,000 98





99 100



SOME CONSEQUENCES ARE DUE TO
MODE OF CONSUMPTION

Smoking

Sumed lips

Throat problems

Lung problems

Lung problems- acute (50% of those who smoke cocaine) and chronic

Injection (unsafe practices)

Skin & heart infections

Hepatitis or HIV

Snorting

Sinus infections

Holes in nasal septum

Nosebleeds

Hoarseness

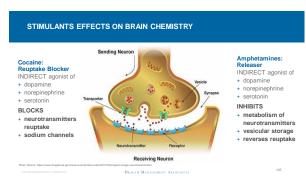
101 102

EFFECTS DEPENDENT UPON MODE OF CONSUMPTION

Drug
Reaches
Brain

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ACUTE EFFECTS OF STIMULANTS

- Increased
 - Alertness/vigilance, concentration, mental acuity
 Energy, locomotion

 - Sensory awareness & sexual desire
 Self confidence, grandiosity, anxiety, irritability, paranoia
- Heart rate & blood pressure, irregular heartheat, vasoconstriction
 Breathing rate, temperature, pupil size & blood sugar
- Electrical activity, seizures
- Euphoria
- · Abnormal bowel and bladder function

Toxic effects on muscles including Dystonia, tremors, stereotypy (i.e., ritualistic movements)

creased

Brain blood flow & glucose metabolism

Brain blood low & glucose metaboli Appetite & sleep Judgment & complex multi-tasking Cardiovascular effects Heart attacks Arrhythmias Severe hypertension Strokes

Increased potential for violence and

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STIMULANT INTOXICATION: TREAT THE PRESENTING SIGN/SYMPTOM Overdose: Treatment of Overdose Seek immediate medical attention for: Treat HTN with alpha and/ or beta blockers Treat arrythmias with anti-arrhythmics Hypertensive (HTN) crisis Treat vasoconstriction with nitroglycerin Cardiac arrythmias BH interventions for Overdose Talk down the client in a calm environment · Heart attack Stroke - Act F.A.S.T.* Treat agitation with benzodiazepine Psychosis Treat psychosis with antipsychotics

LONG-TERM MENTAL EFFECTS OF ILLICIT STIMULANTS » Tolerance to euphoria and appetite suppression » Loss of ability to concentrate & severe memory loss » Loss of ability to feel pleasure without drug » Paranoia and psychosis (hallucinations & delusions) » Irritability and anger » Depression (suicidal ideation) >> Impulsive, risky sexual behavior
HEALTH MANAGEMENT ASSOCIATES * Use of stimulants in doses approved by FDA for treatment of medical conditions do not result in these effects

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* Facial drooping, Arm weakness, Speech difficulty, Time to call 9-1-1

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LONG TERM PHYSICAL EFFECTS OF ILLICIT STIMULANTS

- ≫ Dry mouth, severe dental decay & ≫ Irregular heart beats gum problems
- » Bruxism (tooth grinding)
- » Weight loss
- » Increased sweating; oily skin
- >> Skin lesions from injection & >> Neonatal effects formication (leading to skin picking)
- >> Headaches
- » Movement disorders and Seizures
- » Strokes (bleeding into the brain) &

>> Cardiomyopathy

» Kidney & liver failure

» Pulmonary hypertension » Damaged brain cells

STIMULANTS AND PREGNANCY

- »Maternal death- pregnancy may increase risk of cardiovascular events
- »Preterm labor
- »Earlier gestational age at delivery
- >> Low birth rate
- »Small for gestational age
- »Strokes in utero
- »Secreted in breast milk

Source: Gouin 2011 - occaine; Rabitospoulos, 2018 "Smid, M. C., Metz, T. D., & Gordon, A. J. (2018). Stimulant Use in Pregnancy: An Under-Clinical debeloics and genecology. 62(1), 168–184. https://doi.org/10.1097/CRF.0000000

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STIMULANT USE IN PREGNANT PEOPLE

- - »During pregnancy stimulant use is more common than opioid use
 - »Cannabis is the most used substance during pregnancy »Followed by stimulants
- »Homelessness and sexual violence predict stimulant use in women...
- If Post-traumatic Stress Disorder (PTSD) is present
 - »Integrated treatment is more effective for co-occurring disorder (COD)

170. https://www.schi.nim.nih.gor/pmc/sirticks/PMC4510017/pdfsihrust804947.pdf Roglass LM, Hein DA, Hu M, Campbell ANC. Associations Between Post-Insurance Stress Symptoms, Simulant Use and Treatment Outcomes: A Secondary Analysis of NIDA's Winners and Treatment Study. Amer J on Addictions. Vol 2013; 90-26. Jain-Feb 2014. https://doi.org/10.1116/1521-0391.2013.1208.xx

CESSATION FROM STIMULANTS

- · Acute withdrawal:
 - 4 days
- · No medication recommended
- Symptoms

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- · Increased appetite
- · Increased sleep & dreaming · Decreased activity & energy
- · Depression & anhedonia
- · Decreased concentration

- · Protracted withdrawal
 - Up to 10 weeks · No medication recommended
- Lingering effects on the brain; may be permanent
- Psychosis
- · Movement Disorders
- · Cognitive Issues

Handout: Stimulant Withdrawal: Monitoring & Treatment https://addictionfreeca.org/r/fpnseg8rpkgg

AMPHETAMINES AND COGNITIVE IMPAIRMENT

- »Two-thirds of people with amphetamine use disorder have cognitive impairment
- » Impairment is "associated" with:
 - »Older age
 - »Earlier onset of use
 - »Longer duration of use
 - »Greater frequency of use
- »May limit ability to follow through on treatment

Mitochondria in neurons & microglia

Damage DNA Chromosomal alterations
Inflammation of microglia Inflammatory markers in peripheral blood

Damage cell structures

AMPHETAMINES AND LINGERING EFFECTS ON BRAIN

- »May be permanent even with prolonged abstinence
 - >> Attention
 - >> Memory
 - »Learning efficiency
 - »Visual- spatial processing
 - »Processing speed
 - »Psychomotor speed »Executive dysfunction

Cognitive Impairment Impairs ability to engage in treatment due to trouble

Sequencing events to get to treatment Remembering what is taught Applying what is taught

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TREATMENT OF STIMULANT USE DISORDER

- » Harm Reduction needed due to IV use &
 - risk of fentanyl

 >>> Educational materials on psychological & physical effects
 - » Fentanyl test strips
 - » Syringe Exchange/distribution & other clean injection supplies
 - » Naloxone and overdose prevention education » Quiet rooms to come down
 - Showers & antibiotics for infection prevention & treatment
 - » Condoms & info on safe sex practices
 - » Water for hydration
 - » Toothpaste and toothbrush



TREATMENT OF STIMULANT USE DISORDER: SAMHSA EVIDENCE BASED RESOURCE GUIDE

- » Motivational Interviewing (MI)
 - »Decreased days of stimulant use & amount of stimulant used/ day
- » Cognitive Behavior Therapy (CBT)
- »Decreased quantity of stimulant use & frequency/ week
- »Decreased risky sexual behaviors
- »Community Reinforcement Approach- see next slide
- »Contingency Management- see next slide

STRONG EVIDENCE FOR THESE AS INDIVIDUAL INTERVENTIONS OR IN COMBINATION APPROACHES

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TREATMENT OF STIMULANT USE DISORDER

- »Community Reinforcement Approach (CRA)
 - »Decreased addiction severity
 - »Decreased drug use (weeks of use, frequency/week, \$/week)
 - »Increased cocaine abstinence
- » Contingency Management (CM): Strongest Effect Size
 - >> Decreased
 - »days of stimulant use
 - »stimulant cravings >>HIV risk behaviors
 - »Studies Veterans Administration National Rollout
 - >> Pre-CM: compared to 42% completed 2 sessions in 1 year >> Post-CM Implementation: 50% completed 14 sessions in 12 week
 - >>92% of >69,000 toxicology tests negative

HOW DOES CM WORK?

- » Select objective target behavior (abstinence)
 - » Define the behaviors
- »Attendance at clinic (group appt, urine)
 »Abstinence from DOC? all illicit drugs? prescribed drugs? alcohol? \gg Provide immediate, consistent, tangible, desired rewards for target behavior
- » Escalate size of reward for consistent behavior
- » When target behavior does not occur
 - » Withhold the reward
 - » Reset size of reward for next occurrence of behavior
- » Example: Fishbowl Method
 - » 250 good job cards/gifts
 - >> 209 vouchers for \$1; 40 for \$20; 1 for \$100

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IN THE CHAT BOX PLEASE ANSWER THIS QUESTION:

Do you have a Contingency Management Program?

Yes No

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CHEMSEX

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CHEMSEX

Chemisex (also known as sexualized drug use – SDU) is the use of drugs to enhance sexual experience. Common drugs used include methamphetamine, gamma-hydroxybutyrate (GHB), gamma-butyrolactone (GBL), cocaine, ketamine, poppers (amyl nitrite) or cannabis (the latter two gave rise to the term SDU)

- Chemsex is popular among some gay, bisexual, transgender, and queer persons, but can be experienced by persons of any gender
- Chemsex participants have higher odds of condomless anal sex with partners of different or unknown HIV status (bareback sex)
- Persons engaged in Chemsex have greater risk of acquiring sexually transmitted infections (STIs) and hepatitis C (HCV)
- nepatits C (HCV)

 Participants are a higher risk of HIV transmission

 The association with sexual risk indicates the importance of promoting harm reduction among this population (e.g., condoms, PFP, PEP, drug knowledge),

 Hook-up apps: slang used include PnP, ParTy, Tina, G

METHAMPHETAMINE AND ITS IMPACT ON HIV INFECTION

Methamphetamine use:

- » <u>Decreases sexual inhibitions</u>, impairs judgment, and provides energy and confidence to engage in sexual activity for long periods of time (hyper-sexual)
- »Causes erectile dysfunction
- » Causes mucosal dryness
- \gg <u>Decreases adherence to HIV treatment</u> and medical follow-up
- »Increases HIV replication
- »Accelerates progress of HIV-related dementia

DOES METHAMPHETAMINE ACCELERATE HIV AND HCV?

- »In test tube studies, when methamphetamine is added to immune cells, it significantly increases HIV replication »Particularly in CD4 cells and monocytes (white blood cells)
- »In mouse models, methamphetamine activated a portion of the HIV genetic code (long terminal repeat – LTR), prompting cells to release a protein tied to more rapid HIV disease progression
- »The Journal of Viral Hepatitis published a study indicating that methamphetamine increases Hepatitis C replication.

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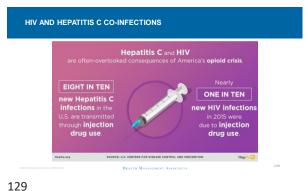
SUD, HIV, AND HEPATITIS C

SUD AND HIV RISK

- »The co-occurrence of HIV and SUD in a community increases the risk of HIV transmission due to:
 - »Sharing of syringes
 - »Intoxicant and/or stimulant involved unprotected sex
 - \gg Sexual violence and victimization
 - »Unaware of HIV status
 - »Unsuppressed viral load

HIV can be a risk factor for substance use. But also... Substance use can be a risk factor for HIV transmission.

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HIV AND HEPATITIS C CO-INFECTIONS

- » In 2018 in Minnesota, there were 60 acute HCV cases and 33,856 chronic cases
- >>8,140 Co-infected for HIV and HCV
- » The U.S. Public Health Service/Infectious Diseases Society of America guidelines recommend that all HIV-infected persons be screened for HCV infection (CDC, 2014).

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QUESTIONS?

NEXT STEPS

- »Join us for Session 4 next Wednesday!
- \gg Your registration should have included a reoccurring calendar invite for all four sessions
- » Please complete the evaluation and post-test for this session that will be sent out after via email (evaluations must be completed for those seeking CEU/CME credits).

Follow-up questions? Contact Cami McIntire at cmcintire@healthmanagement.com

HEALTH MANAGEMENT ASSOCIATES

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