

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

Training Series: Session 3
October 2, 2024


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
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
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Camera OFF





Camera ON
- » 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. You will see messages throughout the webinar on there. When prompted by the presenters, type in your answers or questions there.




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2

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3

HOUSEKEEPING

Today is Session 3

Please complete the evaluation and post-test for the webinar that will be sent out via email after each session.

You will be receiving a PDF of today's presentation.

This session is being recorded.

Follow-up questions?

Contact Gabriel Velazquez:
gvelazquez@healthmanagement.com

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4

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
 2. Be in attendance for the entire session
 3. 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: October 2nd).

Follow-up questions?
 Contact Gabriel Velazquez:
 gvelazquez@healthmanagement.com

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5

ACKNOWLEDGMENTS

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














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6

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 Ojibwe (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 given in the USDAC Honor Native Land Guide – edited to reflect this space by Shannon Geshick, MTAG, Executive Director Minnesota Indian Affairs Council


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7


TODAY'S PRESENTERS



Charles Robbins, MBA
(he/him/his)
 Principal
 Health Management Associates



Linda Follenweider, MS, APRN
(she/her/hers)
 Managing Director
 Health Management Associates



Shannon Robinson, MD
(she/her/hers)
 Principal
 Health Management Associates

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8

DISCLOSURES

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.

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9

AGENDA FOR WEBINAR SERIES

Session	Topics
#1 WEDNESDAY, SEPTEMBER 4 12:00 pm to 3:00 pm	<input type="checkbox"/> Understanding HIV <input type="checkbox"/> HIV Testing, Treatment and Prevention <input type="checkbox"/> The Science of Addiction <input type="checkbox"/> Screening, and Assessment
#2 WEDNESDAY, SEPTEMBER 11 12:00 pm to 3:00 pm	<input type="checkbox"/> Ethical and Legal Issues <input type="checkbox"/> Funding and Policy Considerations <input type="checkbox"/> HIV Risk Reduction <input type="checkbox"/> SUD Harm Reduction <input type="checkbox"/> HIV and Stigma <input type="checkbox"/> Motivational Interviewing **No webinar presented on September 18, 2024**
#3 WEDNESDAY, SEPTEMBER 25 12:00 pm to 3:00 pm	<input type="checkbox"/> Working with Justice Involved Persons <input type="checkbox"/> Substance Use Disorder Treatment with Medications <input type="checkbox"/> Mental Health Treatment and Counseling <input type="checkbox"/> Stimulant Use <input type="checkbox"/> Chem Sex
#4 WEDNESDAY, OCTOBER 2 12:00 pm to 3:00 pm	<input type="checkbox"/> Cultural, Racial and Sexual Identities <input type="checkbox"/> Pregnancy and HIV, SUD/ODU <input type="checkbox"/> Accessing, Obtaining, and Integrating Services for Individuals with HIV and SUD in Minnesota

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10

TIME FOR A POLL

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

- A. 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
- I. 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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11

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)

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12

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)
- » Gender identity and/or expression - internal perception of one's gender; how one identifies or expresses oneself.
 - » Cisgender – 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.

SOURCE: Centers for Educational Justice and Community Engagement, UC Berkeley

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13

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.)

SOURCE: US Office of Management and Budget; Federal Register Vol. 62(210): 58782

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14

14

COMMON ACRONYMS (REVISITED)

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

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15

15

WORKING WITH JUSTICE-INVOLVED INDIVIDUALS

16

LEARNING OBJECTIVES: WORKING WITH JUSTICE-INVOLVED INDIVIDUALS

I

Describe the importance of substance use disorder treatment with medications in criminal justice settings

II

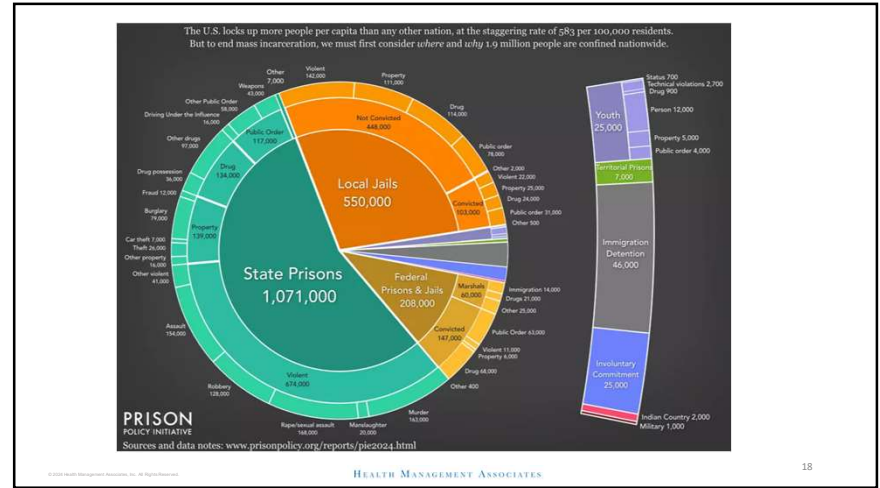
List 3 actions to take to ensure continuity of care for clients upon release from justice settings

III

Compare and contrast FDA approved medications for Alcohol Use Disorder (AUD), Opioid Use Disorder (OUD), and opioid reversal

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17



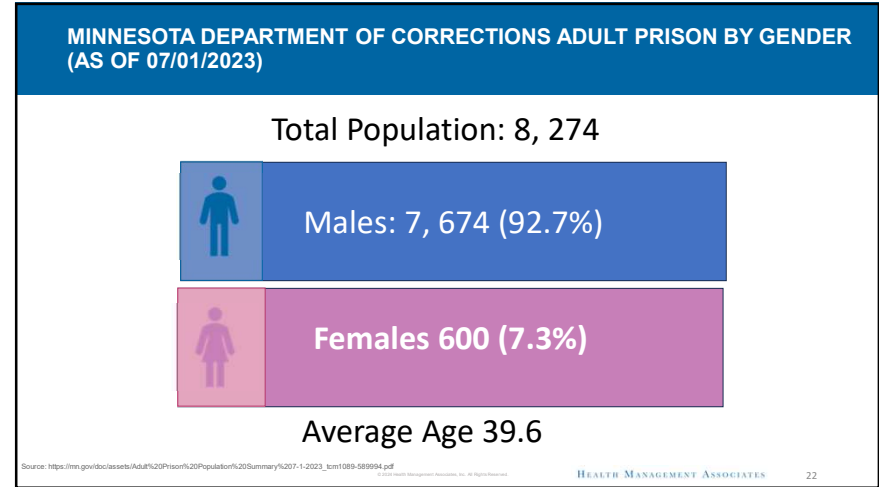
Race/Ethnicity	Count	Percentage of incarcerated population (%)	MINNESOTA DEPARTMENT OF CORRECTIONS ADULT PRISON POPULATION SUMMARY (AS OF 01/01/2024) Average age: 39.9 Average ADP 2024: 8,275 Males: 7,699 (93.0%) Females: 576 (7.0%)
White	4,164	50.3%	
Black	3,125	37.8%	
American Indian	748	9.0%	
Asian	218	2.6%	
Unknown/Other	20	0.2%	
Total	8,275	100%	

Note: 415 (5.0%) of the above are of Hispanic ethnicity.

Source: https://mn.gov/doc/assets/AdultPrisonPopulationSummary/01-01-2024_tcm1089-616186.pdf

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21



22

MINNESOTA DEPARTMENT OF CORRECTIONS ADULT PRISON POPULATION SUMMARY (AS OF 01/01/2024)			
Top Six Offenses	Count	Percentage (%)	
Homicide	1,636	19.8%	
Criminal Sexual Conduct	1,599	19.3%	
Drugs	1,323	16.0%	
Weapons	822	9.9%	
Assault	705	8.5%	
DWI	393	4.7%	

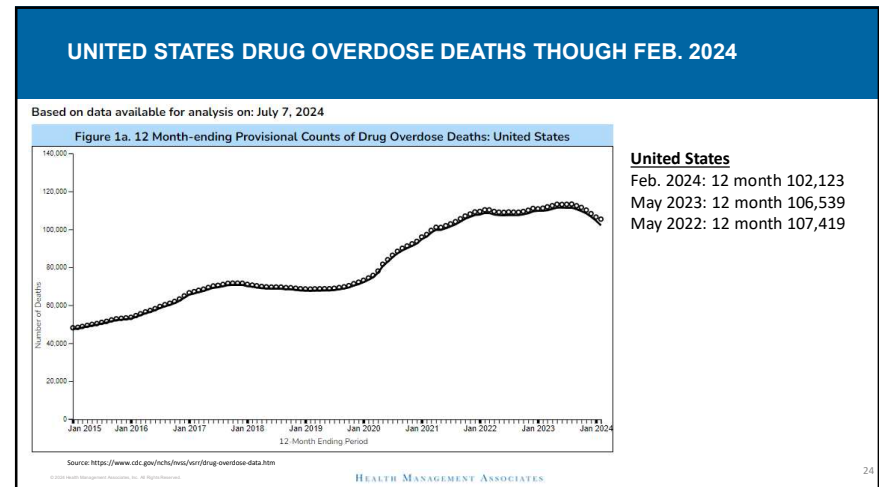
Note: Percentages are based on the total population of 8,274

Releases (FY2023)	Count	Percentage (%)
Supervised Release/Parole	3,779	78.9%
Community Programs	689	14.4%
Discharge	381	5.8%
Other	42	0.9%
Total	4,791	100.0%

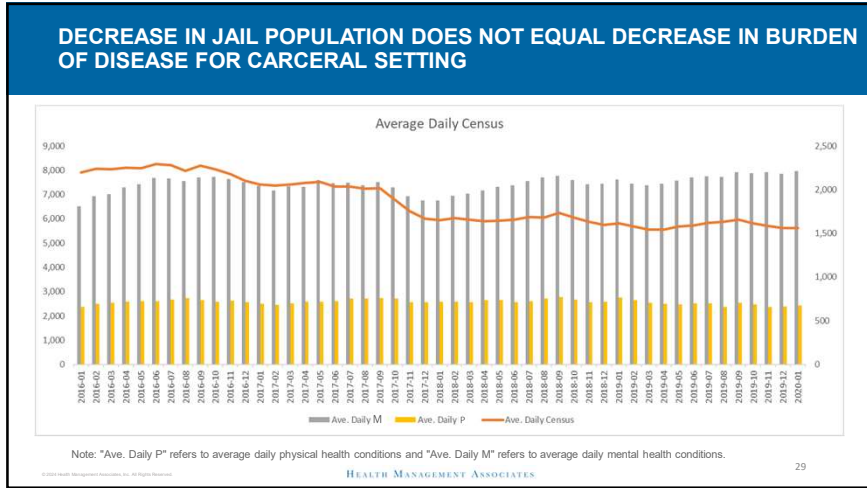
Source: [Minnesota Department of Corrections Adult Inmate Profile as of 01/01/2004 \(mn.gov\)](https://mn.gov/doc/assets/AdultInmateProfile/asof01012004/mn.pdf)

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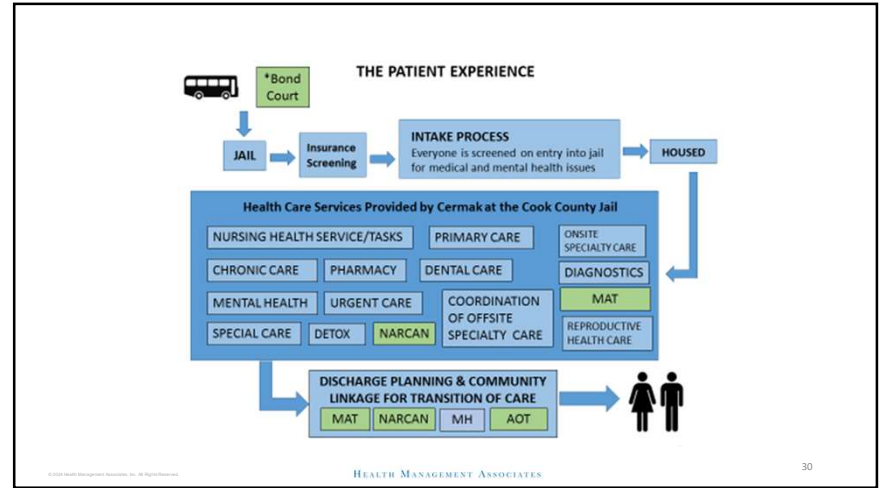
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24



29



30

TRANSITION OF CARE

- » 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.
- » Important Issues Regarding Release
 - » Narcan on release
 - » Warm handoff to community provider
 - » Challenges in jails and beyond
 - » No clear discharge date/time
 - » Release not correlated to clinical condition
 - » Housing options frequently suboptimal in supporting recovery
 - » Variability in provision of substance use disorder treatment with medications

Source: <https://store.samhsa.gov/sites/default/files/d7/priv/sma16-4998.pdf>

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31

COMMUNITY OPPORTUNITIES TO MINIMIZE INCARCERATION

- » Early identification of individuals with mental and substance use disorders at all points of contact with the justice system – pre-arrest, 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.
- » Engaging 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.

Source: <https://store.samhsa.gov/sites/default/files/d7/priv/sma16-4998.pdf>

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32

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 decision-makers 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.

Source: <https://store.samhsa.gov/sites/default/files/d7/priv/sma16-4998.pdf>

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33

33

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

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34

34

SUBSTANCE USE DISORDER TREATMENT WITH MEDICATIONS

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.

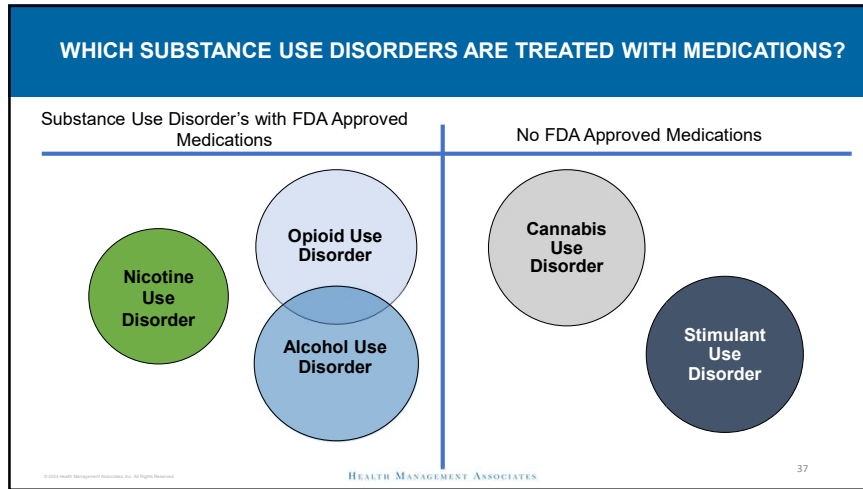
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36

35

36



37

WHY IS MOUD IMPORTANT?

Treat Withdrawal	Address Dopamine Depletion	Treat OUD/Achieve Results
<ul style="list-style-type: none"> • Muscle pain, dilated pupils, nausea, diarrhea, abdominal cramping, piloerection • Lasts 3-14 days • Methadone or buprenorphine are recommended over abrupt cessation due to risk of return to use, overdose (OD) & death 	<ul style="list-style-type: none"> • Reward/motivation pathway abnormalities persists for months after people stop using • Treated with methadone or buprenorphine 	<ul style="list-style-type: none"> • Abstinence based treatment results in 85% using opioids within 1 year • MOUD decreases <ul style="list-style-type: none"> • Use • Craving • Complications from IVDU • Criminal behavior • MOUD increases retention in treatment

Sources: ASAM. (2020) National Practice Guidelines for the Treatment of OUD. Mattick, RP & Hall W. (1998) Lancet 347: 8994, 97-100. Mattick, RP et al. (2008) Cochrane Systematic Review. Mattick, RP, et al. (2009) Cochrane Systematic Review. Lobmaer, P et al. (2008) Cochrane Systematic Review. Kupitky et al. (2011) Lancet 377, 1506-13. Kakko et al. (2003) Lancet 361(9358):662-8. Rich, JD, et al. (2015) Lancet

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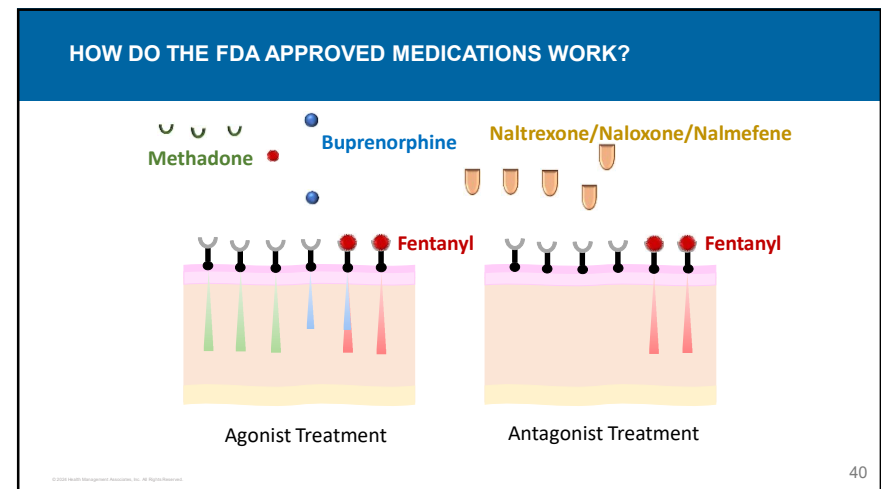
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FDA APPROVED MEDICATION FOR OUD

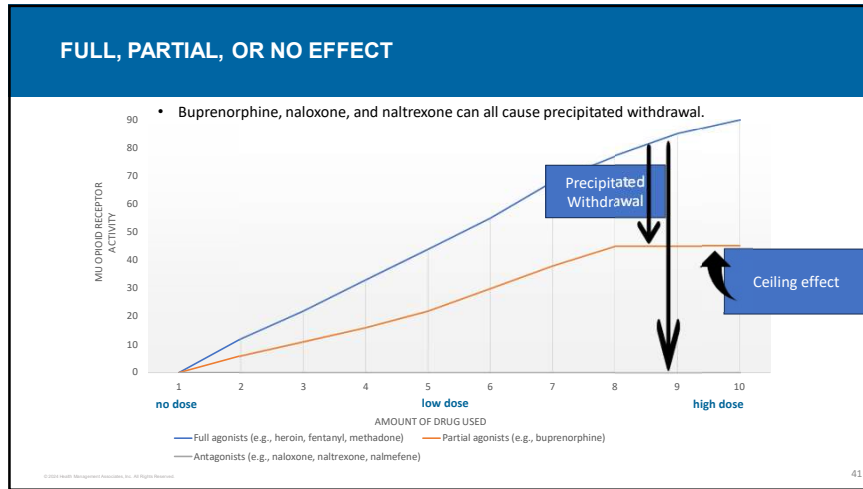
<p style="background-color: #4a86e8; color: white; padding: 5px; border-radius: 5px;">Agonist Treatment (turns on the receptor):</p> <ul style="list-style-type: none"> • Methadone- approved for cough in 1940s, for OUD 1972 • Buprenorphine (Suboxone™ & Subutex™)- approved in 1981 for pain; oral approved for OUD 2002, patch, implants & injection later 	<p style="background-color: #7ed321; color: white; padding: 5px; border-radius: 5px;">Antagonist Treatment (blocks receptor from turning on):</p> <ul style="list-style-type: none"> • Naltrexone (Revia™)- oral approved 1984; injectable (Vivitrol™)2006 for AUD, 2010 for OUD • Naloxone- approved 1971, autoinjector 2014, nasal spray (Narcan™) 2015 • Nalmefene™ - injectable approved 1995; nasal spray approved 2023
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39



40



41

METHADONE: WHAT AND FOR WHOM?

- » Mu opioid receptor agonist
 - » No "ceiling effect"
- » Can start prior to being in withdrawal
- » Reaching a therapeutic dose takes time
 - » <60 mg/d is not therapeutic
 - » Typical dose 60-120 mg/d
 - » Increased frequency and daily dose required during pregnancy
- » Several drug-drug interactions
- » Illegal to write prescription for methadone to treat OUD unless:
 - » Narcotic Treatment Program (NTP)
 - » Covering a gap of no more than 3 days
 - » Patient is in a DEA licensed clinic or hospitalized

Patients with a more severe OUD, such as injecting opioids

Patients who have not reached treatment goals with other MOUD





Patients who would benefit from the closest follow up

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42

42

METHADONE: GENERAL FEDERAL REGULATIONS

 <p>Delivered via observed dosing</p>	<p>Once patient is stable and after 6 weeks, can be given take-home doses (varies by state)</p> 
<p>Highly monitored in a Narcotics or Opioid Treatment Program setting (NTP/OTP)</p> 	<p>Many requirements for treating patients: therapy, toxicology...</p> 

<https://www.federalregister.gov/documents/2024/02/02/2024-01693/medications-for-the-treatment-of-opioid-use-disorder>


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43

43

METHADONE: EFFICACY DATA

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



Source:
* Matisick 2009 Cochrane Review
** Wakeman 2020 JAMA Open Network

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44

44

BUPRENORPHINE: WHAT AND FOR WHOM?

- » Partial mu opioid agonist with ceiling effect
 - » Available sublingually alone or in combination w/naloxone and as a long acting- weekly or monthly injections
 - » Doses >32 mg don't cause greater respiratory effects
 - » Different formulations (sub-lingual [SL] or 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 16-32 mg/d
 - » Increased frequency and daily dose required during pregnancy
- » Fewer drug-drug interactions than methadone

https://downloads.asam.org/sitefinity-production-blobs/docs/default-source/advocacy/letters-and-comments/asam_clinical_considerations_buprenorphine.212-11.pdf

Opioid use disorder or withdrawal


Patient wants agonist treatment

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45

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 crime, infectious disease and death*



Source:
NIDA Medications to Treat Opioid Use Disorder Research Report Updated December 2021
Mattick 2014 Cochrane Review
* Wakeman 2020 JAMA Open Network

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46

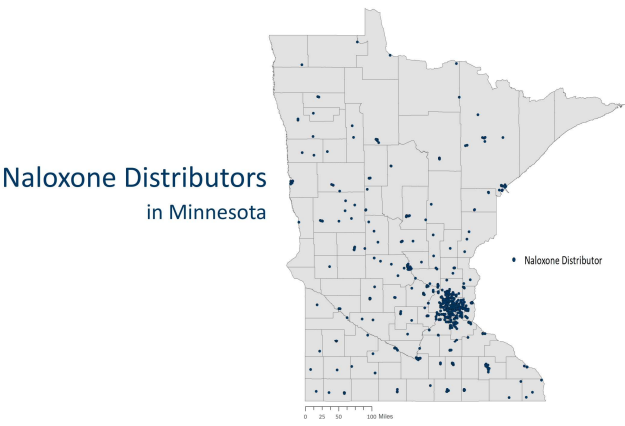
NALOXONE: OD REVERSAL AGENT AS HARM REDUCTION

- » Mu opioid antagonist
- » 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
- » Saves lives; no evidence for increasing drug use
- » Good Samaritan law in MN
- » Available over the counter

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47

Naloxone Distributors in Minnesota



<https://www.health.state.mn.us/communities/opioids/mresponse/naloxoneaccess.html>

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48

Slide 47

SR0 Shannon, Pull updated reference from SOC HR PPT regarding the percentage of people who have naloxone.
Shannon Robinson, 2024-10-02T16:48:39.558

SR0 0 Also add Am toxicology ref regarding Opvee.
Shannon Robinson, 2024-10-02T16:49:35.448

Slide 48

SR0 [@Gabriel Velazquez] any updates on locations naloxone available in MN?
Shannon Robinson, 2024-07-17T16:39:43.728

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 Rummier HOPE Network](#)—Call 952-943-3937 or sign up for training from the [Steve Rummier 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.
- >> [Lutheran Social Services](#)—Call 800-582-5260.

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49

TIME FOR A POLL

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

- A. Yes
- B. No
- C. I Don't Know

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50

NALTREXONE: WHAT AND FOR WHOM?

- >> Mu opioid antagonist with high, competitive binding affinity
- >> Does not treat withdrawal or low dopamine levels
- >> Must be opioid free x 14 days before starting and/or have completed withdrawal if recently using
- >> No evidence of decreased mortality

Patients with a high degree of motivation (dopamine)

Patients with a history of OUD and Alcohol Use Disorder (AUD)


Patients who did not reach treatment goals with methadone or buprenorphine

Can be useful for occasional use or after discontinuation of methadone or buprenorphine


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51


NALTREXONE: GENERAL REGULATIONS



No Federal regulations inhibit the use



Not all BH clinics have RN to give injections




Multiple formulations:
 –Pills at 25mg and 50 mg (50-100 mg for AUD)
 –Long acting injectable 380mg (28-30 days) for AUD and OUD

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52

NALTREXONE: EFFICACY DATA

- » Extended Release (XR) Naltrexone 90% opioid abstinence toxicology tests vs. 35% placebo*
 - » Decreased incarceration**
- » XR Naltrexone vs usual care in HIV clinic***
 - » Fewer days of opioid use for those on XR Naltrexone



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Source:
*Krupitsky 2011 Lancet
**Minozzi 2011 Cochrane Review
*** Korthuis 2022

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53

53

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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54

54

TO TAPER OR NOT TO TAPER?

Evidence is clear that long-term or indefinite treatment with medications for OUDs is often required for effective and sustained outcomes¹

In practice, successful tapers from methadone or buprenorphine typically occur in only about 15 percent of cases^{2,3}

According to the U.S. Surgeon General, successful tapers typically occur, if at all, when individuals have been treated with Medicated Assisted Treatment (MAT) for at least 3 years⁴

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55

55

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56

56

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57

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58

WHY MEDICATIONS FOR ALCOHOL USE DISORDER IS IMPORTANT?

Increased retention in treatment

Decreased drinking

Decreased cravings

Decreased healthcare costs

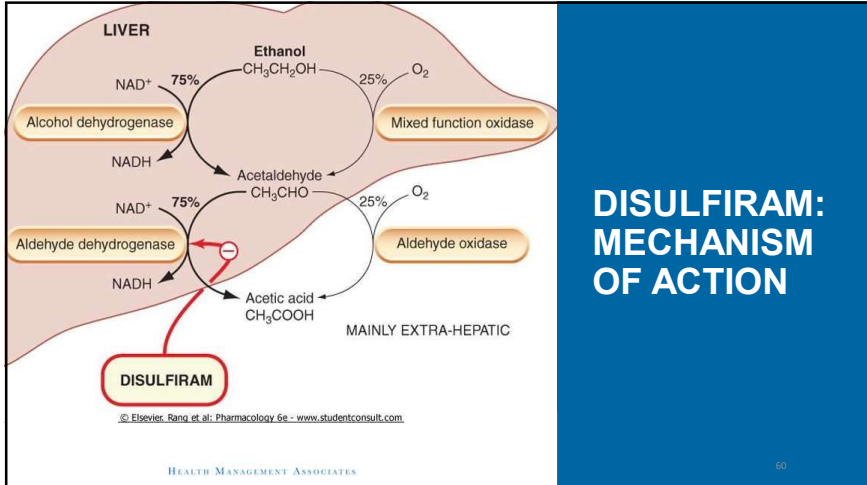
Disulfiram

Naltrexone (oral and intramuscular)

Acamprosate

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59



60

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, pimoziide, 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
- » Extensive list of side effects

Source: * McPheeters M, O'Connor EA, Riley S, Kennedy SM, Voisin C, Kuzmicki K, Coffey CP, Edlund MD, Bobashev G, Jonas DE. Pharmacotherapy for Alcohol Use Disorder: A Systematic Review and Meta-Analysis. JAMA. 2023 Nov 7;330(17):1653-1665. doi: 10.1001/jama.2023.19761. PMID: 37934220; PMCID: PMC10630900.

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NALTREXONE FOR ALCOHOL USE DISORDER

- Few side effects
- Drug Interactions: opioids
 - » No P450 interactions
- Contraindications: severe acute hepatitis
- Well studied in mild and moderate cirrhosis
- Safe in mild renal disease

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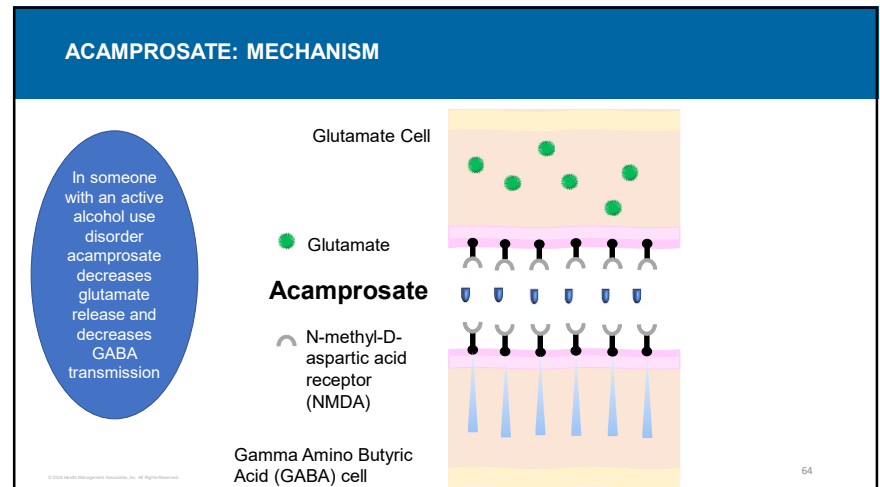
62

NALTREXONE EFFICACY

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

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63



64

ACAMPROSATE FOR ALCOHOL USE DISORDER

- » Effective
 - » Decreased quantity and frequency
 - » Increased retention in treatment and abstinence
- » Three times per day dosing
- » Drug Interactions: none
- » Contraindications: severe renal impairment
 - » Dose reduce if someone has moderate renal impairment (creatinine clearance 30-50ml/m) to 333mg three times a day (TID)
- » Few side effects
- » No metabolism

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65

65

TIME FOR A POLL

Question:

Do you know anyone on medication for Alcohol Use Disorder?

- A. Yes
- B. No

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66

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67

67

5-MINUTE STRETCH BREAK!



68

COUNSELING FOR CO-OCCURRING HIV & SUD

69

LEARNING OBJECTIVES: COUNSELING FOR CO-OCCURRING HIV & SUD

<p>I</p> <p>Discuss coping with a HIV diagnosis and preparing patients for disclosure</p>	<p>II</p> <p>Identify at least 3 considerations for mental health treatment of individuals with HIV and SUD</p>	<p>III</p> <p>Distinguish acute and chronic risk of suicidality in individuals with HIV and SUD</p>
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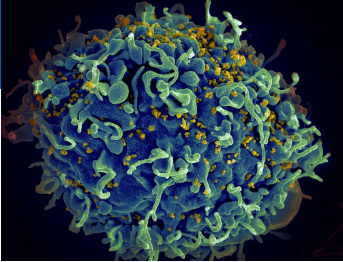
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70

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



Sources: Dash, 2015; Schaffer 2017; Strazza 2011; Dahal 2015; Andriole 2012; NIDA, 2021 <https://www.drugabuse.gov/publications/research-reports/common-comorbidities-substance-use-disorders/>
Photo Source: National Cancer Institute on Unsplash


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

“Substances of abuse” weaken the blood brain barrier

- » Allowing HIV to more easily enter the brain
- » Allows infection and damage to nerves and supporting cells (glia)
- » Triggers release of neurotoxins
- » Can lead to dementia
 - » 50% of people with HIV have neurocognitive disorders




Sources: Dash, 2015; Schaffer 2017; Strazza 2011; Dahal 2015; Andriole 2012; NIDA, 2021 <https://www.drugabuse.gov/publications/research-reports/common-comorbidities-substance-use-disorders/>
Photo Source: Mitsal Faburien on Unsplash

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72

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



Sources: NIDA 2021 <https://www.drugabuse.gov/publications/research-reports/common-comorbidities-substance-use-disorders>
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Photo Source: Testalze.me on Unsplash

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HIV TESTING RECOMMENDATIONS

- ✓ 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: NIDA 2021 <https://www.drugabuse.gov/publications/research-reports/common-comorbidities-substance-use-disorders>
Substance Abuse and Mental Health Services Administration. (2021). Treating Substance Use Disorders Among People with HIV. Advisory.

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STTR MODEL OF CARE

- » 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

Sources: NIDA 2021 <https://www.drugabuse.gov/publications/research-reports/common-comorbidities-substance-use-disorders>
Holtzman AB, Erlandson PG, Sarason DL, Vogel E, Marmor JH. Cost-Effectiveness of Frequent HIV Testing of High-Risk Populations in the United States. *J Acquir Immune Defic Syndr* 2009; 52(1): 122-30. doi:10.1097/QAI.0b013e31819c2f8b
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75

SR0

TIME FOR A POLL

In your organizations, do you test for HIV?

Yes

No

I Don't Know

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76


Slide 76

SRO [[@Cami Collins](#)] if you can get this poll added then we can uphide this slide.
Shannon Robinson, 2024-07-17T16:43:30.258

EPIDEMIOLOGY- HIV & MENTAL HEALTH

- » Up to 70% of people living with HIV have a history of trauma
- » 54% of people living with HIV have post-traumatic 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

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

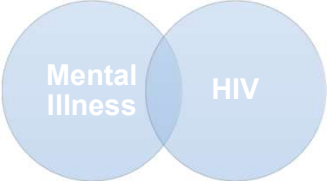


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77

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
- » Those with affective disorders were **3.8x** as likely to contract HIV



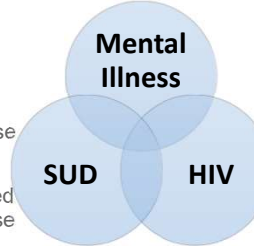
Sources: Kessler, R.C. 2005, Andriote, JM. 2012, Gaynes, B.N. 2008, Blank M.B.2013

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78

SUD, HIV AND MENTAL ILLNESS

- » 54% report moderate to high-risk cannabis use
- » 40% report moderate to high-risk drinking
- » 12% report moderate to high-risk cocaine
- » 11% reported moderate to high risk of amphetamine use
- » Only 35% of people in 10 outpatient HIV clinics reported talking to primary care provider (PCP) about alcohol use
- » < 50% of providers in hospital-based HIV care programs conducted recommended screening and brief interventions for reducing alcohol




Sources: Staruss, S.M. 2009, Andriote, JM. 2012, Dawson Rose 2017

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79

COUNSELING: COPING WITH AN HIV DIAGNOSIS

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



Sources: Andriote, JM. 2012 <http://www.aidsmap.com/news/aug-2012/hardest-outcome-all-hiv-and-suicide>
Photo Source: LinkedIn Sales Solutions on Unsplash

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80

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

Sources: Andriote, JM, 2012 <http://www.aidsmap.com/news/aug-2021/hardest-outcome-all-hiv-and-suicide>

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81

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

Sources: Andriote, JM, 2012 & Blank MB 2013

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82

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

Source: NIDA 2021 <https://www.drugabuse.gov/publications/research-reports/common-comorbidities-substance-use-disorders>

SUD Treatment is HIV Prevention!

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83

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: 16%
General Population: 3%

Suicidal Ideation Rate
People living with HIV: 23%
General Population: 9%

Sources: <http://www.aidsmap.com/news/aug-2021/hardest-outcome-all-hiv-and-suicide>
<https://www.health.state.mn.us/people/yringer/suicide.pdf>

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84

TIME FOR A POLL

Question:

People who talk about suicide, do not attempt suicide.

- A. True
- B. False

85

RISK FACTORS FOR SUICIDE



Suicidal Ideation Risk Assessment

STEPS AND RESOURCES FOR EXPLORING THOUGHTS OF SUICIDE

- Trauma
- Triggering event- stressor
- Ideation & past behavior
- Health-medical, mental and substance
- Purposeless, hopeless
- Poor sleep
- Mood, anxiety, anger, withdrawal
- Reckless, impulsive

Sources: <https://www.health.state.mn.us/people/syringe/suicide.pdf>

86

ASSESSMENT FOR SUICIDALITY

- » Which factors can be modified to reduce risk?
 - » Opportunities for healing
 - » Reduce harms
- » Protective factors
 - » Connectedness
 - » Support
 - » Skills- problem solving, coping, healing



Sources: <https://www.health.state.mn.us/people/syringe/suicide.pdf>
Photo Source: Glenn Carstens-Peters on Unsplash

87

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

Sources: <https://www.health.state.mn.us/people/syringe/suicide.pdf>

88

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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89

89

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90

90

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91

STIMULANT USE

92

92

LEARNING OBJECTIVES: STIMULANT USE AND PERSONS WHO ENGAGE IN CHEMSEX

I

List at least 5 risks associated with methamphetamine usage

II

Define and identify at least 2 benefits of contingency management

III

Identify at least 3 risk behaviors of persons who engage in Chemsex

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93

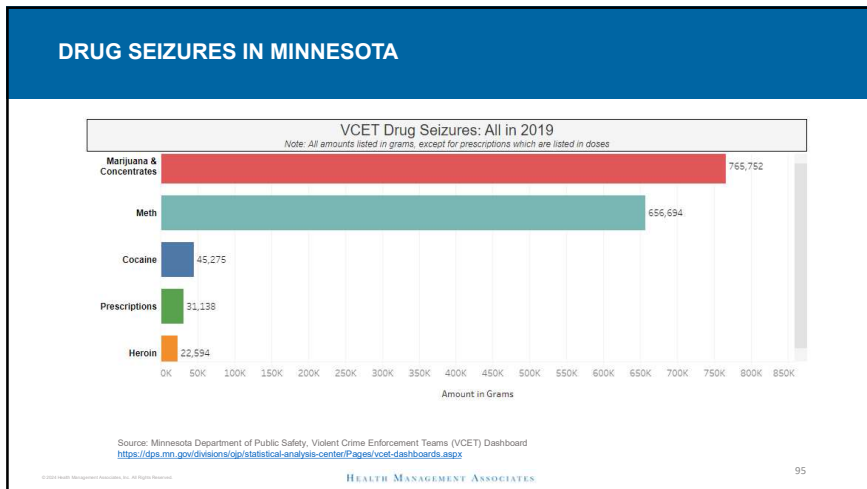
WHAT ARE STIMULANTS?

- » Cocaine
 - » “Psychostimulants with abuse potential”
 - » Mahuang, ephedra & khat- plants
 - » Pseudoephedrine, ephedrine & cathinone & cathine-chemical in above plants
 - » “Bath salts” (synthetic man made cathinones)
- » Amphetamine (synthetic)
 - » Methamphetamine (dextro & levo)
 - » Amphetamine (dextro & levo)
 - » MDMA/ecstasy = Molly = methylenedioxy-methamphetamine
 - » Methylphenidate = Ritalin™
- » Methylxanthines (naturally occurring)
 - » Caffeine (coffee)
 - » Theophylline (tea)
 - » Theobromine (chocolate)

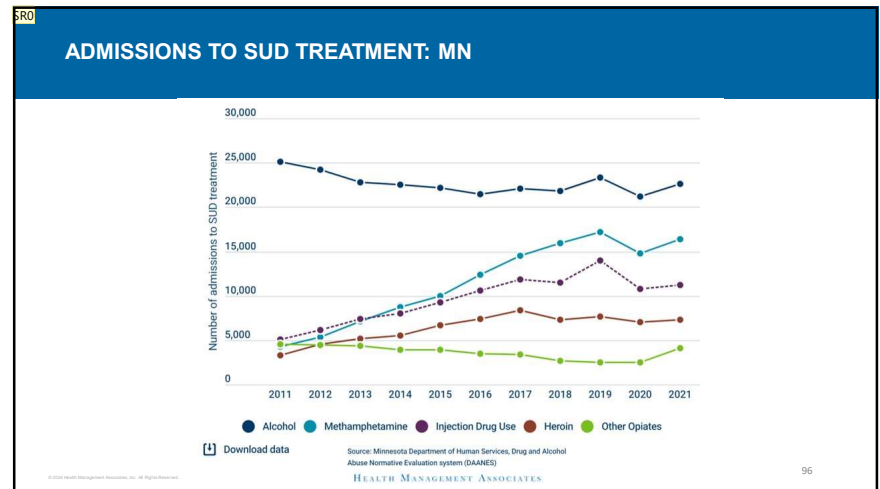


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94



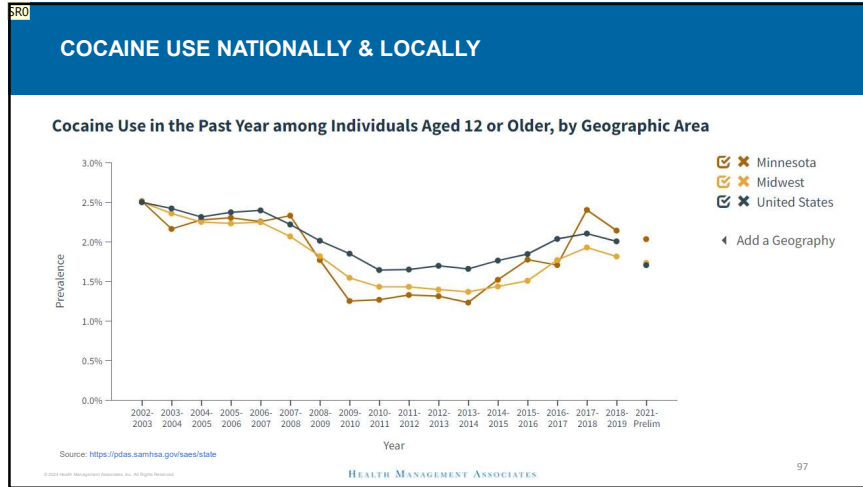
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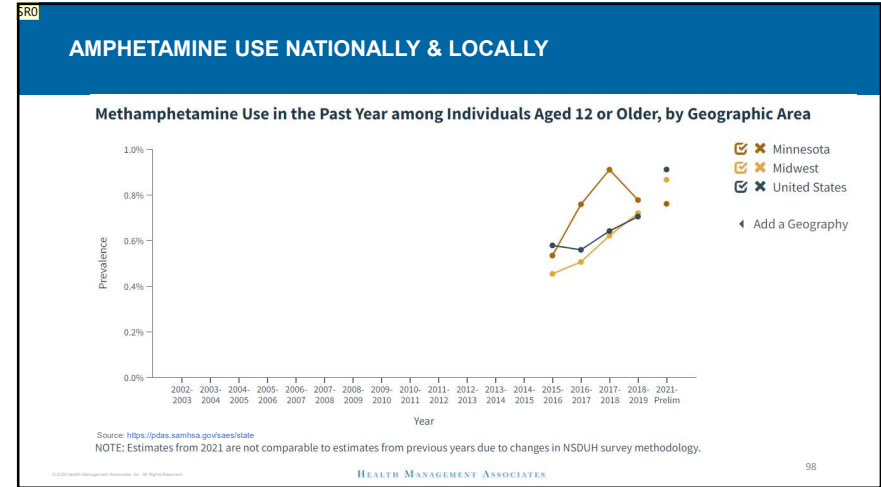
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Slide 96

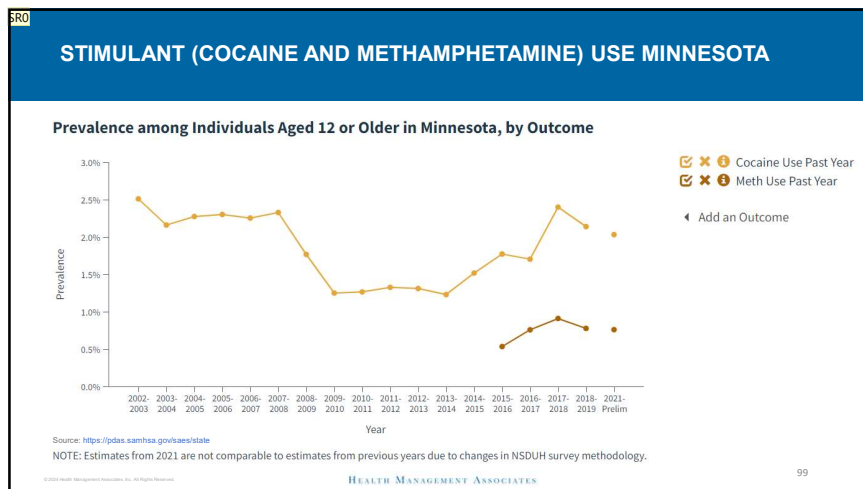
SRO [@Cami Collins] update slide with any new data and let's give full link for source
Shannon Robinson, 2024-07-17T16:44:36.791



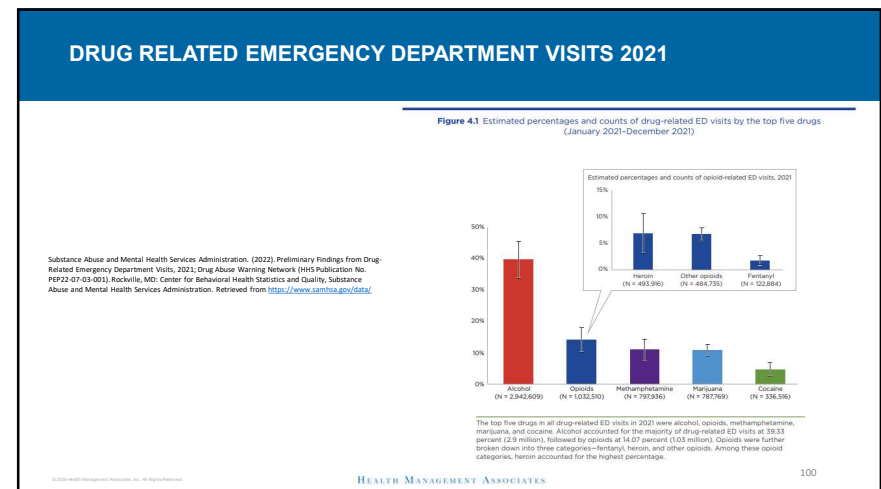
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98



99



100

Slide 97

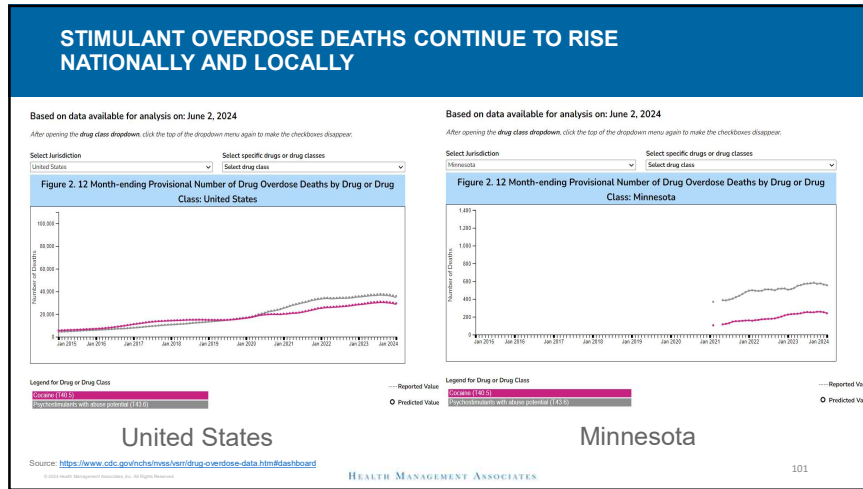
SR0 [@Cami Collins] update data hopefully available
Shannon Robinson, 2024-07-17T16:45:05.022

Slide 98

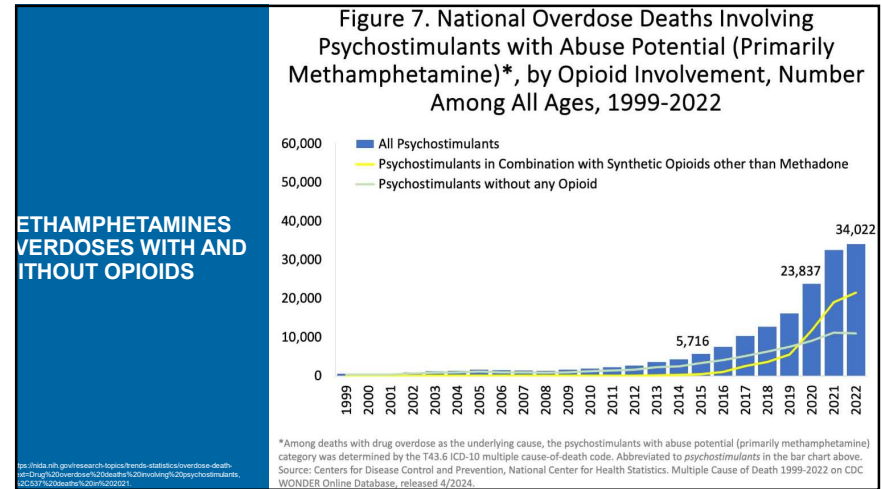
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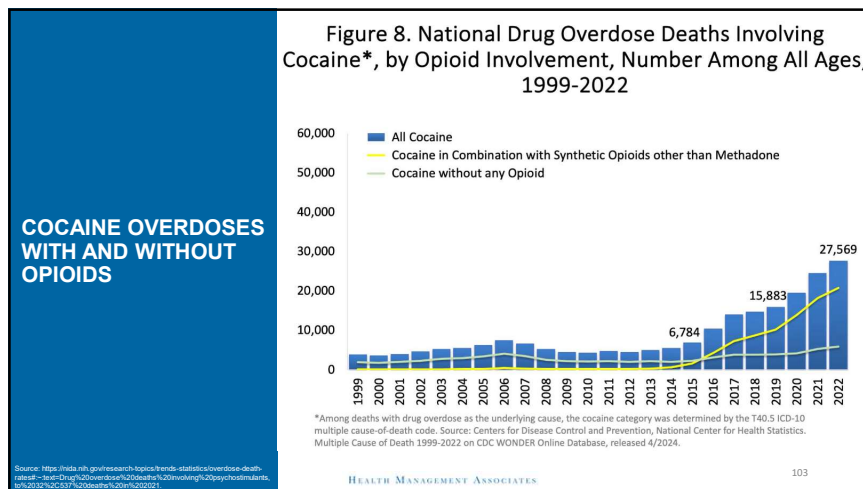
SR0 [@Cami Collins] any updated data?
Shannon Robinson, 2024-07-17T16:45:57.816



101



102



103

IN THE CHAT BOX PLEASE ANSWER THIS QUESTION:

Do you prefer:

- Coffee*
- Tea*
- Chocolate*
- Soda*
- I refuse to pick just one*

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104

MEDICINAL USES FOR STIMULANTS

- >> Cocaine- used as a vasoconstrictor & numbing agent
- >> "Psychostimulants with abuse potential"
 - >> Ephedra- made into pseudoephedrine and used for allergies and colds
 - >> Khat used for depression, obesity, fatigue in middle east
 - >> Amphetamines are used for obesity, narcolepsy & Attention Deficit Hyperactivity Disorder (ADHD)
 - >> Methylxanthines
 - >> Caffeine (coffee)
 - >> Theophylline (tea) used for asthma
 - >> Theobromine (chocolate)

Amphetamine dosing:
ADHD 2.5 mg/day to 70mg/ day
Narcolepsy 5 mg/day to 60 mg/day

Methamphetamine dosing:
ADHD approved but not commonly used
5 mg/day to 25 mg/ day

**Illicit use of amphetamines/
methamphetamines up to 1 g / day**

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105

SOME CONSEQUENCES ARE DUE TO MODE OF CONSUMPTION

- >> Smoking
 - >> Burned lips
 - >> Throat 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

NOTE:
There is cross tolerance from one class of stimulants to another

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106

EFFECTS DEPENDENT UPON MODE OF CONSUMPTION

Drug Reaches Brain	}	<ul style="list-style-type: none"> ▪ Smoking- seconds ▪ Injection- seconds ▪ Snorting- 15 minutes ▪ Oral-45 minutes
Half-Life	}	<ul style="list-style-type: none"> ▪ Cocaine 1h ▪ Bath Salts 3 hours ▪ Amphetamine 7 hours ▪ Methamphetamines 12 hours

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TIME FOR A POLL

Have you had trouble retaining patients with stimulant use disorders in treatment?

A. Yes
B. No

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108

STIMULANTS EFFECTS ON BRAIN CHEMISTRY

Cocaine: Reuptake Blocker
 INDIRECT agonist of
 + dopamine
 + norepinephrine
 + serotonin

BLOCKS
 + neurotransmitters reuptake
 + sodium channels

Amphetamines: Releaser
 INDIRECT agonist of
 + dopamine
 + norepinephrine
 + serotonin

INHIBITS
 + metabolism of neurotransmitters
 + vesicular storage
 + reverses reuptake

Photo Source: <https://www.drugabuse.gov/news-events/hida-notes/2017/03/impacts-drugs-neurotransmission>

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109

ACUTE EFFECTS OF STIMULANTS

- Increased
 - Alertness/vigilance, concentration, mental acuity
 - Energy, movement
 - Sensory awareness & sexual desire
 - Self confidence, grandiosity, anxiety, irritability, paranoia
 - Heart rate & blood pressure, irregular heartbeat, vasoconstriction
 - Breathing rate, temperature, pupil size & blood sugar
 - Electrical activity, seizures
- Euphoria
- Abnormal bowel and bladder function

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

Decreased
 Brain blood flow & glucose metabolism
 Appetite & sleep
 Judgment & complex multi-tasking

Cardiovascular effects
 Heart attacks
 Arrhythmias
 Severe hypertension
 Strokes

Increased potential for violence and psychosis

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STIMULANT INTOXICATION: TREAT THE PRESENTING SIGN/SYMPOM

Overdose:
 Seek immediate medical attention for:

- Hypertensive (HTN) crisis
- Cardiac arrhythmias
- Heart attack
- Stroke – Act F.A.S.T.*
- Psychosis

Treatment of Overdose
 Treat HTN with alpha and/ or beta blockers
 Treat arrhythmias with anti-arrhythmics
 Treat vasoconstriction with nitroglycerin

BH interventions for Overdose
 Talk down the client in a calm environment
 Treat agitation with benzodiazepine
 Treat psychosis with antipsychotics

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

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111

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)
- » Insomnia and fatigue
- » Irritability and anger
- » Depression (suicidal ideation)
- » Impulsive, risky sexual behavior

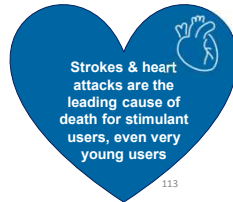
* Use of stimulants in doses approved by FDA for treatment of medical conditions do not result in these effects

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112

LONG TERM PHYSICAL EFFECTS OF ILLICIT STIMULANTS

- » **Dry mouth, severe dental decay & gum problems**
 - » **Bruxism (tooth grinding)**
 - » Weight loss
 - » Increased sweating; oily skin
 - » Skin lesions from injection & formication (leading to skin picking)
 - » Headaches
 - » Movement disorders and seizures
 - » **Strokes (bleeding into the brain) & heart attacks**
- » Irregular heart beats
 - » Cardiomyopathy
 - » Kidney & liver failure
 - » Pulmonary hypertension
 - » Damaged brain cells
 - » Neonatal effects



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113

STIMULANTS AND PREGNANCY

- » Pregnancy may increase risk of cardiovascular events
- » Preterm labor
- » Earlier gestational age at delivery
- » Low birth weight
- » Small for gestational age
- » Strokes in utero
- » Secreted in breast milk

Child:
Dysregulated behavior, growth, inhibitory control, attention and abstract reasoning, but these effects appear to be related to gestational age at delivery, psychiatric disorders, other prenatal exposures and quality of postnatal environment. *
Anxiety, depression at 3-year-old **
Worse cognitive function at 7-year-old **

Source: Goatin 2011; cocaine; Kalatzopoulos, 2018
*Smit, M. C., Metz, T. D., & Gordon, A. J. (2019). Stimulant Use in Pregnancy: An Under-recognized Epidemic Among Pregnant Women. *Clinical obstetrics and gynecology*, 62(1), 168-184. <https://doi.org/10.1097/GRE.0000000000000418>
**Denif et al. 2007

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114

114

STIMULANT USE IN PREGNANT PEOPLE

- » Pregnancy
 - » 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)

Sources:
- Center for Behavioral Health Statistics Quality. 2015 National survey on drug use and health: Detailed tables in 2016
- Rleya, ED. Risk factors for stimulant use among homeless and unstably housed adult women. *Drug Alcohol Depend.* 2015 August 1; 153: 173-179. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4510017/pdf/nihms694947.pdf>
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115

115

CESSATION FROM STIMULANTS

- Acute withdrawal:
 - 4 days
 - No medication recommended
- Symptoms
 - Increased appetite
 - Increased sleep & dreaming
 - Decreased activity & energy
 - Depression & anhedonia
 - Decreased concentration
 - Craving
- 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/fpseg8rpkgg>

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116

116

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

Damage cell structures

- Mitochondria in neurons & microglia

Damage DNA

- Chromosomal alterations

Inflammation of microglia

Disruption of blood brain barrier

- Inflammatory markers in peripheral blood

Cell death

Source: Paulus, M (2020) Neurobiology, clinical presentation, and treatment of methamphetamine use disorder a review. JAMA Psychiatry 77(9): 959-66.

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117

117

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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118

118

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



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119

119

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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120

120

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

Sources: SAMHSA Oliva, EM (2013) Warner & DePhillips (2020)

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121

HOW DOES CM WORK?

REMEMBER:
Measure objectively & frequently
Don't set the bar too high or low

- » Select objective target behavior (abstinence)
 - » Define the behaviors
 - » Attendance at clinic (group appt, urine)
 - » Abstinence from DOC? all illicit drugs? prescribed drugs? alcohol?
- » 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

Reinforcement totaling \$80 = treatment as usual. Reinforcements of \$240 improves outcomes. Petry 2004

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122


IN THE CHAT BOX PLEASE ANSWER THIS QUESTION:

Do you have a Contingency Management Program?

Yes

No

Photo Source: Jasper Garratt on Unsplash



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123

WHAT TREATMENTS HAVE BEEN TRIED FOR STIMULANT USE DISORDER?

- » Cocaine & amphetamines not consistently effective
- » Antidepressants: SSRIs and tricyclic antidepressants not effective
- » Bupropion: risk of seizures; 5 failed trials for amphetamine use disorder *
- » Mirtazapine: risk of weight gain; single small study + for amphetamine use disorder in men who have sex with men
- » Treatment of co-occurring Opioid Use Disorder (OUD)
- » Opioid agonists: increased dose of buprenorphine or methadone shows decreased cocaine use generally
- » Naltrexone: + results in multiple small studies amphetamine use disorder and cocaine use disorder *
- » Antiseizure medications: Topiramate (risks); + one or two small studies in amphetamine use disorder

* See next slide

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124

WHAT TREATMENTS HAVE BEEN TRIED FOR STIMULANT USE DISORDER?

https://downloads.asam.org/sitefinity-production-blobs/docs/default-source/quality-science/stud_guideline_document_final.pdf?sfvrsn=71094b38_1



The ASAM/AAAP
CLINICAL PRACTICE GUIDELINE ON THE
Management of
Stimulant Use
Disorder

There are NO FDA approved medications for stimulant use disorders. Best Practices and Standards of Care do NOT endorse medication for stimulant disorders, by prescribers who are not experienced in addiction medicine.

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125

WHAT'S ALL THE FUSS ABOUT?

- » New England Journal of Medicine article 2021
- » 400 adults with methamphetamine use disorder
- » Bupropion 450mg per day + placebo or bupropion 450mg per day + extended-release naltrexone 380mg IM q 3w (XR NTX)
- » 6-week study
- » Response defined as 3 of 4 toxicology tests negative for methamphetamines
- » 14% of patients on Bupropion + XR NTX responded vs 3% on Bupropion + placebo
- » Buprenorphine vs. placebo has a 21% difference for negative tox screen

This is a 6-week study and has NOT been replicated yet. Only 11% increased response over placebo. Compare this to the EXCELLENT outcomes from psychosocial treatments.

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* See next slide

126

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127

127

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128

128

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HEALTH MANAGEMENT ASSOCIATES 129

129

CHEMSEX

130

130

CHEMSEX

Definition:
Chemsex (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)

What You Should Know:









- 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)
- Participants are at higher risk of HIV transmission
- The association with sexual risk indicates the importance of promoting harm reduction among this population (e.g., condoms, PrEP, PEP, drug knowledge).

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131

CHEMSEX

Common Terminology Used to Communicate the Desire to Engage in Chemsex

Injecting	Meth	GHB	Ketamine	ChemSex
Pointing, slamming, darts	Blowing clouds, Cloudy, ice cream, tea, T, tina	Water, Gina, Swirling	K, Special K	Party, PNP, Party and play
				
				

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132

IMPACT OF CHEMSEX DRUGS

- » Engaging in chemsex can be managed by some. This can mean that there is minimal impact on an individual's general wellbeing, work, relationships with partners, friends, and family.
- » For others it can prove problematic, and individuals may experience:
 - impaired decision making
 - it dominates social life and free time
 - can lead to chaotic sexual encounters
 - sexual boundaries are often crossed while high
 - issues around sexual consent
 - impact on sexual health: Hep C, HIV, as well as other STI's
 - behaviors associated with addiction
 - impact on mental health
 - health issues associated with injecting drugs
 - being vulnerable to mental and physical harm by others
 - isolation
 - unmanageable comedowns
 - suicidal ideation
 - an impact on work performance
 - a breakdown of personal relationships

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133

133

METHAMPHETAMINE AND ITS IMPACT ON HIV INFECTION

Methamphetamine use:

- » Increases sexual desire, 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
- » Decreases adherence to HIV treatment and medical follow-up
- » Increases HIV replication
- » Accelerates progress of HIV-related dementia

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134

134

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.

Source: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2675873/>

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135

135

HIV AND HEPATITIS C


136

136

HIV AND HEPATITIS C CO-INFECTIONS

Hepatitis C and HIV
are often-overlooked consequences of America's **opioid crisis**.

EIGHT IN TEN
new Hepatitis C infections in the U.S. are transmitted through **injection drug use**.



Nearly **ONE IN TEN** new HIV infections in 2015 were due to **injection drug use**.

HepVu.org SOURCE: U.S. CENTERS FOR DISEASE CONTROL AND PREVENTION HepVu

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137

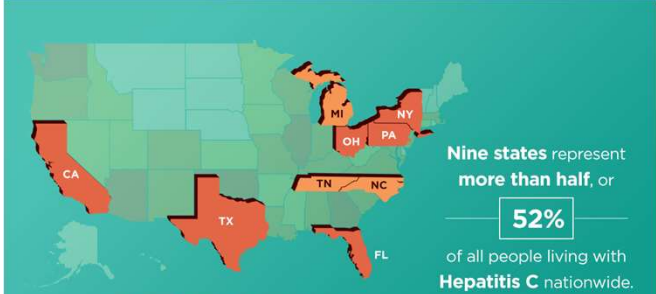
HIV AND HEPATITIS C CO-INFECTIONS

- » 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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138

HIV AND HEPATITIS C CO-INFECTIONS



Nine states represent more than half, or **52%** of all people living with Hepatitis C nationwide.

Estimated Number of People Living with Hepatitis C, 2015-2016

0 - 10,000 10,001 - 25,000 25,001 - 50,000 50,001 - 75,000 75,000+

HepVu.org SOURCE: HepVu HepVu

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139

QUESTIONS?

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140

Slide 137

SR0 [@Charles Robbins] can I get this reference? I'd like to use this for SOC.
Shannon Robinson, 2024-01-05T23:20:48.703

SR0 0 [@Charles Robbins] I couldn't find this in Hep Vu and was wondering if it came from a specific publication that could be referenced or if more up to date data was available.
Shannon Robinson, 2024-01-05T23:26:56.214

NEXT STEPS

- » Join us next week for Session 4!
- » 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 Gabriel Velazquez at
gvelazquez@healthmanagement.com

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141

141

AGENDA FOR WEBINAR SERIES

Session	Topics
#1 WEDNESDAY, SEPTEMBER 4 12:00 pm to 3:00 pm	<input type="checkbox"/> Understanding HIV <input type="checkbox"/> HIV Testing, Treatment and Prevention <input type="checkbox"/> The Science of Addiction <input type="checkbox"/> Screening, and Assessment
#2 WEDNESDAY, SEPTEMBER 11 12:00 pm to 3:00 pm	<input type="checkbox"/> Ethical and Legal Issues <input type="checkbox"/> Funding and Policy Considerations <input type="checkbox"/> HIV Risk Reduction <input type="checkbox"/> SUD Harm Reduction <input type="checkbox"/> HIV and Stigma <input type="checkbox"/> Motivational Interviewing **No webinar presented on September 18, 2024**
#3 WEDNESDAY, SEPTEMBER 25 12:00 pm to 3:00 pm	<input type="checkbox"/> Working with Justice Involved Persons <input type="checkbox"/> Substance Use Disorder Treatment with Medications <input type="checkbox"/> Mental Health Treatment and Counseling <input type="checkbox"/> Stimulant Use <input type="checkbox"/> Chem Sex
#4 WEDNESDAY, OCTOBER 2 12:00 pm to 3:00 pm	<input type="checkbox"/> Cultural, Racial and Sexual Identities <input type="checkbox"/> Pregnancy and HIV, SUD/ODU <input type="checkbox"/> Accessing, Obtaining, and Integrating Services for Individuals with HIV and SUD in Minnesota

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142

142