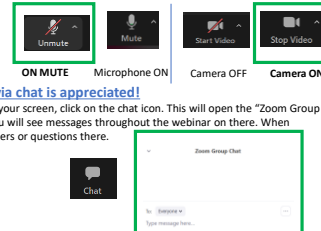


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## Utilizing Zoom

- **Ensure your audio is linked to your Zoom participant ID.**
  - If you joined the audio by computer microphone and speaker, then you're all set.
  - If you joined the audio with a phone and did not enter your unique participant ID then enter **# <your participant ID> #** on your phone now. *Note: Your unique participant ID can be found by clicking on the lower left corner of your Zoom screen where it says 'Join Audio' and your Participant ID will appear.*
- **Ensure you are on MUTE and your camera is ON.** On the bottom left corner of your screen, you will see a red line through the microphone.
- **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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## Housekeeping

- Today is **Session 1**
- This series is eligible for both **CEU's** and **CME's**
  - These activities have been approved for CEU's 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 CME's by the American Academy of Family Physicians for 3 hours of credit (total of 12 hours if all four sessions are fully attended)
- Please complete the evaluation 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 Cami McIntire: [cmcintire@healthmanagement.com](mailto:cmcintire@healthmanagement.com)

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## Welcome



**Darin Rowles, MSW, LISW**  
(he/him/his)  
Manager | HIV Supports, Disability Services Division  
Minnesota Department of Human Services

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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 Ojibwe, 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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Today's Presenters



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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.
Akiba Drew, MPH	Ms. Drew 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.
Helen DuPlessis, MD, MPH	Dr. DuPlessis 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. She is also a Board Member of Blue Shield of California Health Plan.
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# Agenda for Webinar Series

Session	Topics
#1 WEDNESDAY, JAN 5 12:00 pm to 3:00 pm	<input type="checkbox"/> Understanding HIV <input type="checkbox"/> HIV Testing and Treatment <input type="checkbox"/> The Science of Addiction <input type="checkbox"/> Screening, and Assessment
#2 WEDNESDAY, JAN 12 12:00 pm to 3:00 pm	<input type="checkbox"/> HIV Risk Reduction <input type="checkbox"/> SUD Harm Reduction <input type="checkbox"/> HIV and Stigma <input type="checkbox"/> Motivational Interviewing <input type="checkbox"/> Ethical and Legal Issues <input type="checkbox"/> Funding and Policy Considerations
#3 WEDNESDAY, JAN 19 12:00 pm to 3:00 pm	<input type="checkbox"/> Medications for Addiction Treatment <input type="checkbox"/> Working with Justice Involved Persons <input type="checkbox"/> Mental Health Treatment and Counseling <input type="checkbox"/> Stimulant Use <input type="checkbox"/> Chem Sex
#4 WEDNESDAY, JAN 26 12:00 pm to 3:00 pm	<input type="checkbox"/> Cultural, Racial and Sexual Identities <input type="checkbox"/> Pregnancy and HIV, SUD/OD <input type="checkbox"/> Accessing, Obtaining, and Integrating Services for Individuals with HIV and SUD in Minnesota

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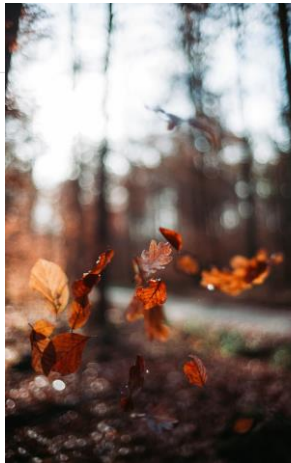
*Please share a curiosity you bring with you today regarding the topics we are covering*

Type your response and don't click enter.

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## SMALL BREAKOUT GROUPS GET TO KNOW YOUR TRAINING COLLEAGUES

BREAKOUT ACTIVITY  
"Get to Know Your  
Colleagues"



### INSTRUCTIONS

#### Step 1: Review How Breakouts Work

#### Step 2: Group Breakout 5 min

Share the following with the other participants in the room:

- Name
- Your personal pronouns
- Share one thing that you want people to know about you that relates this training

#### Step 3: Return to Main Room

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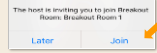
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BREAKOUT ACTIVITY  
"Small Breakout"

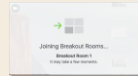


HOW BREAKOUTS WORK

1. Click 'Join' when you see this prompt:



2. This message will appear.



3. You'll enter a "room" with 3-4 colleagues, please ensure to unmute your microphone.



MICROPHONE ON

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BREAKOUT ACTIVITY  
"Get to Know Your Neighbors"



INSTRUCTIONS

Step 1: Review How Breakouts Work

Step 2: Group Breakout 5 min

Share the following with the other participants in the room:

- Name
- Your personal pronouns
- Share one thing that you want people to know about you that relates to this training

Step 3: Return to Main Room

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BREAKOUT ACTIVITY  
"Get to Know Your Colleagues"



INSTRUCTIONS

Step 1: Review How Breakouts Work

Step 2: Group Breakout 5min

Share the following with the other participants in the room:

- Name
- Your personal pronouns
- Share one thing that you want people to know about you that relates to Austin

Step 3: Return to Main Room

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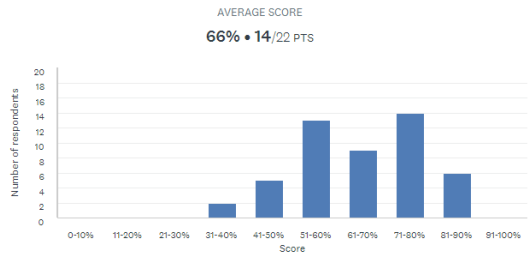


Let's begin!

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Pre-test Results



The Intersection of HIV and SUD

Context for the Intersection of HIV & SUD

- Substance use disorder (SUD) is frequently diagnosed among people with HIV.
- SUD also increases risk for acquiring HIV infection.
- The federal Health Resources and Service Administration (HRSA) recognizes the benefit of substance abuse treatment service for people with HIV and classifies outpatient treatment as a core medical service.

Context for the Intersection of HIV & SUD

- Tremendous biomedical advancements in HIV prevention and treatment have led to aspirational efforts to end the HIV epidemic.
- However, this goal will not be achieved without addressing the significant mental health and substance use problems among people living with HIV (PLWH) and people vulnerable to acquiring HIV.
- These problems exacerbate the many social and economic barriers to accessing adequate and sustained healthcare.

## Glossary of Terms

- **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

- **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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## Glossary of Terms

**Health Insurance Portability and Accountability Act (HIPAA)** - required the creation of national standards to protect sensitive patient health information (PHI) from being disclosed without the patient's consent and includes a Privacy Rule addressing disclosure of and access to PHI; the Security Rule protects disclosure of and access to electronic PHI (e-PHI) a subset of information covered by the Privacy Rule

**Code of Federal Regulations, Title 42, Part 2 (42 CFR Part 2)** – a complicated set of regulations that strengthen the privacy protections afforded to persons receiving alcohol and substance use treatment (in addition to the more general privacy protections afforded in HIPAA). The regulations restrict the disclosure and use of alcohol and drug patient records which are maintained in connection with any individual or entity that is federally assisted and holds itself out as providing, and provides, alcohol or drug abuse diagnosis, treatment or referral for treatment (42 CFR § 2.11)

**Family Education Rights Protection Act (FERPA)** - protects the privacy of student education records in public or private elementary, secondary, or post-secondary school and any state or local education agency that receives funds under an applicable program of the US Department of Education.

SOURCES: Centers for Disease Control and Prevention; and the Substance Abuse and Mental Health Services Administration

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## Common Acronyms

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

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## Learning Objectives: Understanding HIV



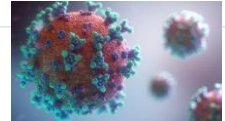
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## What is HIV?



### HIV is the virus

**Human:** the virus can only infect human beings

**Immunodeficiency:** the virus destroys T-helper cells, an essential component of our body's immune system, leading to a deficiency in our body's ability to fight infection.

**Virus:** the organism is a virus which is incapable of reproducing by itself; it must use a human cell to reproduce.

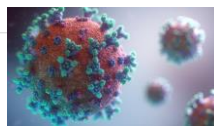
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## What is HIV?



### • Characteristics

- Ribonucleic acid (RNA) virus
- Classified as retrovirus (the virus inserts a copy of its genetic material (RNA) into the DNA of a host human cell)
- Spread from person-to-person contact by contact with certain body fluids
- Weakens the immune system of a person by replicating inside T cells, a type of white cell also known as CD4 cells. The T cells are destroyed during this process.
- Once established, infection with HIV is chronic.
- HIV is the virus that causes AIDS.

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## Time for a Poll



**Approximately how many people in the United States are living with HIV?**

- A. 275,000
- B. 500,000
- C. 1,100,000
- D. 2,300,000

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## HIV Quick Facts



- HIV is a **chronic manageable infection**
- Approximately 1.1 million people are living with HIV in the United States
- In 2019, an estimated **34,800 new HIV infections** occurred in the United States.
- HIV continues to have a disproportionate impact on certain populations, particularly **racial and ethnic minorities** and **gay, bisexual, and other men who have sex with men**.

<https://www.hiv.gov/hiv-basics>

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## What is AIDS?

- AIDS is the disease:
  - **Acquired:** HIV is not a condition passed on genetically; a person must become infected with it
  - **Immune:** the immune system's ability to fight off viruses and bacteria becomes much less effective
  - **Deficiency:** the immune system fails to work properly
  - **Syndrome:** there are a wide range of diseases and opportunistic infections a person may experience once the immune system is depleted by HIV

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## What is AIDS?

- It is a complex illness with a wide range of symptoms
- AIDS refers to individuals who have particular "AIDS-defining" disease such as:
  - a very low CD4 white blood cell count
  - specific illnesses acquired due to the weakened immune system (e.g., Burkitt's lymphoma, Kaposi sarcoma, pneumocystis pneumonia, toxoplasmosis, wasting syndrome)

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## Stages

1. **Acute HIV infection**
  - HIV establishes infection in the body via replication within 11 days of initial acquisition
  - During acute infection, virus levels in the blood are very high.
  - Very contagious
  - Flu-like symptoms
  - ~ 50% of individuals will feel ill during acute infection
2. **Chronic HIV infection**
  - Asymptomatic or latent
  - Virus is active but is replicating at low levels
  - May last years
  - Viral load increases, CD4 count decreases
3. **AIDS**
  - CD4 < 200 cells/mm or opportunistic infections
  - Can have high viral load and be infectious

Source: <https://www.cdc.gov/hiv/basics/whatishiv.html>

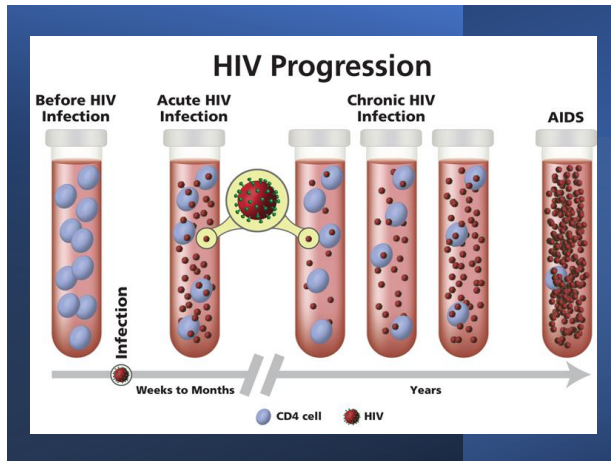
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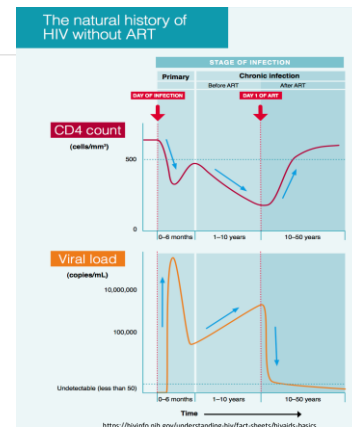
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## Stages



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## Symptoms of HIV During Acute Infection

- Fevers
- Chills
- Rash
- Night sweats
- Muscle aches
- Sore throat
- Fatigue
- Swollen lymph nodes
- Mouth ulcers

HIV can not be diagnosed by symptoms, particularly those similar to other illnesses

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## Chronic Infection

- Once acquired, HIV is a lifelong infection
- There is no cure for HIV, but the infection can be controlled with medications much like diabetes.
- With treatment, the life expectancy of people with HIV is nearly the same as those who do not have HIV.
- Without treatment, most people living with HIV infection will go on to develop AIDS.

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## Latent HIV Reservoir

- Group of immune cells in the body that are infected with HIV but are not actively producing new HIV virus
- HIV medications do not affect these cells
- If a person stops taking their HIV medications, the infected cells in the reservoir can begin making new HIV virus

Source: <https://hivinfo.nih.gov/understanding-hiv/fact-sheets/what-latent-hiv-reservoir>

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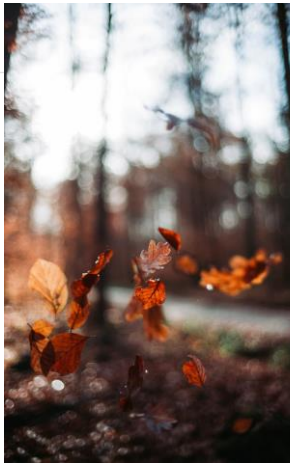
*What information do you need to better prepare you to work with or care for individuals who are living with HIV?*

Type your response and **don't click enter.**

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Picture from Unsplash



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## References

### UNDERSTANDING HIV

- "About HIV/AIDS." Centers for Disease Control and Prevention, <https://www.cdc.gov/hiv/basics/whatisshiv.html>.
- "The Stages of HIV Infection." National Institutes of Health, U.S. Department of Health and Human Services, <https://hivinfo.nih.gov/understanding-hiv/fact-sheets/stages-hiv-infection>.

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## HIV Incidence in Minnesota

- In 2020, there were 226 new HIV cases, which is a decrease from 276 cases in 2019
  - This is below the 5-year average of 274 cases
  - People assigned male gender at birth accounted for the majority of cases (84%)
- HIV rates among people who inject drugs is increasing:
  - In 2014, 5% of new HIV cases were due to injection drug use
  - In 2019, 15% of new HIV cases were due to injection drug use
- Disparity
  - Over two-thirds (69%) of new cases are among communities of color despite these communities representing 17% of the population



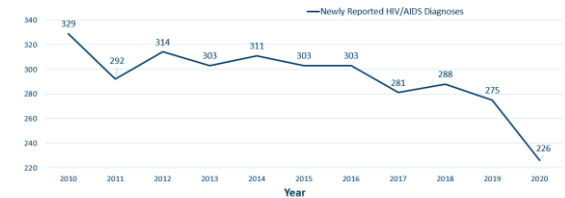
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## HIV Incidence in Minnesota

Newly Reported HIV Cases



mi DEPARTMENT OF HEALTH \*Includes all new cases of HIV infection (both HIV (non-AIDS) and AIDS at first diagnosis) diagnosed within a given calendar year.

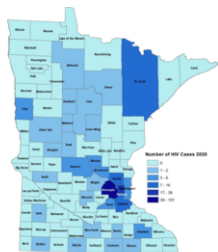
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## HIV Incidence in Minnesota

HIV Diagnoses# by County of Residence at Diagnosis, 2020



## HIV Prevalence in Minnesota

Estimated Number of people  
Living with HIV/AIDS in Minnesota

- As of December 31, 2020 **9,422\*** people are assumed alive and living in Minnesota with HIV/AIDS. This includes:
  - 5,247 (56%) living with HIV infection (non-AIDS)
  - 4,175 (44%) living with AIDS
- This number includes **2,540** people who were first reported with HIV or AIDS elsewhere and subsequently moved to Minnesota
- This number excludes **1,629** people who were first reported with HIV or AIDS in Minnesota and subsequently moved out of state

\*This number includes people with Minnesota reported as their current state of residence, regardless of residence at time of diagnosis. It also includes state prisoners and refugees arriving through the HIV+ Refugee Resettlement Program, as well as HIV+ refugees/immigrants arriving through other programs.

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## HIV Outbreak in Minnesota

HIV Outbreaks in Hennepin/Ramsey Counties & Duluth Region



### Duluth area Outbreak

Declared 3/2021

Cases (N=21)\*

### Hennepin/Ramsey Counties Outbreak

Declared 2/2020

Cases (N=80)\*

Disproportionate number of AI/AN

People who inject drugs

People who are homeless or unstably housed

\* Data counts as of 9/21/21

### People at high-risk in the current outbreaks:

- People who inject drugs (PWID) or share needles/works
- People experiencing homelessness (PEH) or unstable housing
- People who exchange sex for income or other items they need

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## HIV Outbreak in Minnesota

- Synergistic with opioid epidemic
- Injection drug use is often a secondary effect of the over-prescription of opioids for pain as a core feature of the opioid epidemic

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### HIV IN MINNESOTA

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- "Health Advisory: HIV Outbreak in Persons Who Inject Drugs (PWID)," Minnesota Department of Health, February 6, 2020. <https://www.health.state.mn.us/communities/ep/ham/2020/feb3hiv.pdf>
- "Quick Facts: Minnesota," U.S. Census. <https://www.census.gov/quickfacts/MN>

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## HIV Transmission

## HIV Transmission

### HIV is in:

- Blood
- Semen
- Vaginal fluids
- Anal fluids
- Breast milk

### HIV is **not** in:

- Tears
- Sweat
- Insect bites
- Utensils
- Furniture, toilets

## HIV Transmission

### 1. HIV must be present

- a. One person **must** be currently infected with HIV

## HIV Transmission (continued)

### 2. There needs to be enough virus

- a. Concentration of HIV determines whether infection will occur
- b. In the blood, the virus is very concentrated
  - i. Therefore, it can take a small amount of blood to infect someone
- c. In bodily fluids like semen, vaginal and anal fluids, or breastmilk, virus levels can change overtime
  - i. Therefore, the chances of transmitting HIV may be lower for those with lower viral loads

## HIV Transmission (continued)

### 3. HIV must get into the bloodstream

- a. Infectious fluids:
  - Blood
  - Semen
  - Vaginal secretions
  - Anal fluids
  - Breast milk
- b. HIV can enter through:
  - Open cut or sore
  - Mucous membranes like the genitals, anus, and rectum
  - Orally
  - HIV cannot cross healthy, unbroken skin
- c. Main transmission routes for the HIV virus:
  - Unprotected sexual intercourse
  - Sharing needles for injection drug use
  - Mother to child transmission

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## Sexual Transmission

- Most common HIV transmission route
- Presence of other sexually transmitted infections can increase the risk of HIV transmission
- Vaginal Sex
  - The female is at the greatest risk because the lining of the vagina is a mucous membrane which can provide easy access to the bloodstream for HIV carried in semen
- Anal Sex
  - Without a condom, riskiest sexual activity for HIV
  - Receptive partner is at greatest risk
  - Cell wall of the rectum is very thin
  - Anal tissue can be easily bruised or torn during sex which then provides easy access to the bloodstream for HIV carried in semen
  - Insertive partner also at some risk because the membranes inside the urethra can provide entry for HIV into the bloodstream

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## Sexual Transmission (continued)

- Oral to Anal
  - Poses minimal HIV risk
- Oral sex
  - Mouth is an unfriendly environment for HIV
  - Saliva contains enzymes that break down the virus and the mucous membranes in the mouth are more protective than anal or vaginal tissue
  - There are a few documented cases where it appears that HIV was transmitted orally, and those cases are attributed to ejaculation into the mouth
  - Risk only for the person performing the oral sex
  - With a female partner - performing oral sex on a woman who is menstruating increases the risk because blood has more HIV than vaginal fluid

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## Time for a Poll



Approximately how many days can HIV survive in a syringe at room temperature?

- A. None
- B. 24 hours
- C. 5 days
- D. 10 days
- E. 21 days
- F. 42 days

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## Non-Sexual Transmission

- Typically involve medical settings or accident scenes where there is a very large volume of blood exposure or a needle stick
- Injection drug use
  - Very high risk for HIV transmission
  - Sharing a syringe is the most efficient way as it passes blood directly from one person's blood stream to another's
  - At **room temperature**, HIV can live as long as **21 days in a syringe**
  - When the temperature is **cold** (near freezing), HIV can live up to **42 days in a syringe**
  - An HIV-negative person has a **1 in 160** chance for getting HIV every time they use a needle that has been used by someone with HIV.
- Tattoos and piercings
  - No documented cases
  - But theoretical risk of transmission
- Mother to infant
  - By exposure to blood and vaginal fluids
  - During birth or through breast milk during feeding

Source: <https://news.yale.edu/2000/09/06/cooler-temperatures-enhance-survival-hiv-syringes>  
 Source: <https://www.cdc.gov/hiv/basics/hiv-transmission/injection-drug-use.html>

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## How Does HIV cause Illness?

- HIV reproduces continuously in the body from the first day of infection.
- Initial Stage:
  - Individuals can experience severe flu-like symptoms
  - Initial stage can last 2-4 weeks
  - Immune system attacks HIV and can clear large amounts of the virus every 24 hours
    - For each virus particle cleared, a new one is created.
  - Anti-HIV response temporarily created equilibrium between immune cells and HIV virus
    - Equilibrium can last for months or years
- After initial stage:
  - No outward signs of illness that can last for years
  - HIV viral load increases and CD4 T cell count declines
  - Immune system starts working improperly
  - HIV overwhelms immune system, leaving the body vulnerable to other illness-causing infections

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## HIV and Hepatitis C (HCV) Co-Infections

- HCV is a bloodborne virus transmitted through direct contact with the blood of an infected person.
- Co-infection is common (50%-90%) among HIV-infected injection drug users (CDC, 2014).
- In co-infected persons, age at time of HCV infection, immune cell (CD4) count and level of alcohol consumption are associated with a higher rate of liver fibrosis.
- Risk of HCV similar to those of HIV:
  - Transfusion prior to 1992
  - Injecting drug use (most common)
  - Long term hemodialysis
  - High risk sexual contact
  - Occupational exposures to blood or blood products
  - Receiving an organ or tissue transplant from someone infected with HCV
  - Transmission from HCV-infected mother to infant.

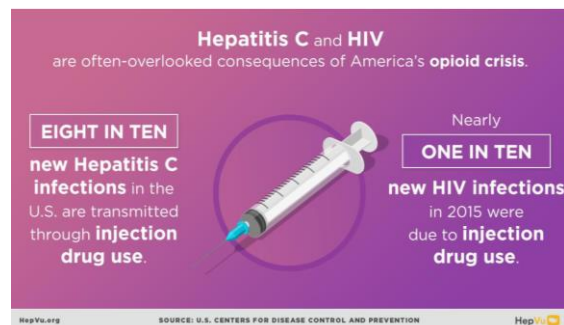
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## HIV and Hepatitis C Co-Infections



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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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- "HIV and Injection Drug Use", Centers for Disease Control and Prevention (2021), <https://www.cdc.gov/hiv/basics/hiv-transmission/injection-drug-use.html>.
- "How Is HIV Transmitted?", HIV.govDate (2019), <https://www.hiv.gov/hiv-basics/overview/about-hiv-and-aids/how-is-hiv-transmitted>.

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## Learning Objectives:

### HIV Testing and Treatment

I

Explain HIV testing and methods, including testing and treatment policies in MN; Describe ART, what does ART stand for, and how it is used

II

Describe the relationship between substance use practices and increased risk of acquiring HIV

III

Explain the relationships between HIV and Hepatitis C

IV

Describe the options and indications for pre- and post-exposure prophylaxis (PrEP and PEP) and treatment of HIV infection

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## HIV Quick Facts



- Fewer than 40% of people in the United States have ever had an HIV test.
- Nationally, less than 30% of people in the United States most at risk of acquiring HIV were tested in the past year (gay, bisexual and other MSM, transgender women, and IDU).
- In the 50 local jurisdictions where more than half of HIV diagnoses occur, less than 35% of people recommended for annual HIV testing were tested in the past year.

<https://www.cdc.gov/media/releases/2019/p0627-americans-hiv-test.html>

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## Group Discussion

*What myths or barriers exist that prevent more people from getting an HIV test?*

Use the “raise your hand” feature in Zoom or simply come off mute.



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## HIV Testing

- First step in HIV diagnosis and preventing the spread of HIV
- Testing is a crucial step in engaging people living with HIV into care
- CDC recommends everyone 13 to 64 years old get tested for HIV at least once as part of their routine care
- Additionally, clients should be tested if the client:
  - Has engaged in risky behaviors
  - Has ever had a sexually transmitted infections (STI)
  - Has a history of sharing drug injection equipment
  - Is presenting with any of a number of symptoms that might indicate recent infection with HIV or early symptomatic infection

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## Type of Tests



- Testing has become more sophisticated over time – more sophisticated tests (i.e., 4<sup>th</sup> or 5<sup>th</sup> generation tests) look for both HIV antibodies and antigens
- Antibody tests look for the body's antibodies to HIV in the blood or oral fluids
  - Measure immune response to HIV
  - Not useful in acute infections
  - Rapid tests and FDA-approved HIV self tests
- Antigen tests detect actual particles of the HIV virus that trigger the body to make antibodies
- Antibody/Antigen tests detect both and most common test in the US
- Nucleic acid test (NAT) looks for the actual virus in blood. Very expensive. Can detect HIV infection 10 to 33 days after an exposure.

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## Rapid HIV Tests

- Several FDA approved tests are available for use
- Provides results in 10 to 40 minutes
- Look for the presence of HIV antibodies
- Either negative or reactive
  - Negative means no HIV antibodies were detected
    - If individual has had three or more months without an HIV risk exposure, the person can be considered negative
    - If individual has had exposure, the person should be tested again after three full months
  - Reactive means antibodies have been detected
    - A confirmatory test is required before diagnosis is given
    - A Western Blot test is generally used as the confirmatory test
      - This is done with a blood draw and processed at a medical lab
      - Results given in one to two weeks
      - Michigan Department of Health (MDH) allows funded programs to do rapid to rapid confirmatory testing shortening this window
      - Can also use a more recent 4<sup>th</sup> generation antibody/antigen test to confirm



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## Minnesota Reporting

- In Minnesota, anonymous testing is no longer offered due to reporting requirements.
  - Confidential testing continues to be available.
- Minnesota's reporting law requires testing sites to pass along all identifying information about the client to the Minnesota Department of Health (MDH).
- This means a testing client's information is only used if a test is reactive, and then only to facilitate the process of linking clients to care.
- Getting clients into care soon after they test HIV-positive will greatly improve their health and decrease their chance of spreading the virus.

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## Treatment



- There are now many medications a person living with HIV can take to slow the progression of the disease.
- When taken as prescribed, these medications can keep a person's health stable for a very long time
- When taken as prescribed these medications can also greatly reduce the ability to pass HIV to others.

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## What Happens if Diagnosed HIV Positive?

- A thorough medical history is an important step to help the clinician proceed to clinical evaluation and formulate a treatment plan.
- Before starting antiretroviral therapy (ART) in any patient, laboratory studies should be done and may include HIV ribonucleic acid (RNA) (or viral load), CD4+ T cell counts, blood counts, screening chemistries, syphilis, toxoplasmosis, purified protein derivative (PPD), hepatitis A, B, and C viruses, and chest x-ray.
- **All patients with HIV should be tested and begin treatment with antiretrovirals as soon as possible, regardless of disease status.**
- Adherence should be maintained because non-adherence can lead to the rapid development of drug resistance and disease progression.
- One means to encourage adherence is to educate clients and their significant others about HIV/AIDS treatment (TIP 37; SAMHSA, 2008).
- It is difficult for unhoused individuals to maintain adherence

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## What is Antiretroviral Therapy?

- Antiretroviral therapy (ART)
  - Medicines used to treat HIV
    - Do not cure or remove virus from the body
    - Stops the virus from replicating
  - Combination of HIV medications taken daily
    - From different drug classes
  - Blocks HIV at different stages of HIV life cycle
  - **Goal: undetectable viral loads**

"Undetectable" is now commonly defined as having fewer than 20 copies/mL because a lot of lab tests can now "detect" HIV at that level.

"Viral load suppression" is usually defined as having fewer than 200 copies of HIV per milliliter of blood (copies/mL).

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## Undetectable = Untransmissible (U=U)

- People cannot transmit the HIV through sexual contact when their viral load is undetectable
- Undetectable means too low to be measured (<200 copies per mL)
- This can take up to 6 months after initiating HIV medications
  - Confirmed by a blood test given by your doctor
  - Should be followed up with another blood test 6 months afterwards



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## U = U for Non-Sexual Transmission

- Undetectable viral loads also crucial to pregnancy, breastfeeding, and injection drug use
  - The risk of transmitting HIV during pregnancy with an undetectable viral load is one in one thousand
  - The risk is not eliminated during breastfeeding, but an undetectable viral load reduces the risk of passing HIV
  - Unsure of how much the risk is reduced when sharing needles during injection drug use



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## U = U and Sexual Partners

- Involving partners in treatment plan can help patients adhere to treatment
- Encourage HIV-positive patients to talk to current and potential partners about what undetectable means
- Counsel patients and their partners to use strategies to maintain healthy sexual lives
  - Condoms – to prevent pregnancy and sexually transmitted infections (STIs)
  - HIV treatment adherence (ART) for an HIV-positive patient
  - Pre-exposure Prophylaxis (PrEP) and Post-exposure Prophylaxis (PEP) for an HIV-negative partner

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## Medication Resistance



- Stopping and re-starting treatment can cause drug resistance to develop
- People receiving intermittent ART have twice the rate of disease progression compared to those receiving continual treatment
- Transient increases in viral load followed by a dip back to undetectable called 'blips'
  - Blips are common and are not indicative of a treatment failure
- U.S. HIV treatment guidelines recommends viral load be measured every 3 – 4 months until undetectable, then less frequent

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- Minnesota Dept. of Health, "Undetectable = Untransmittable (U=U)," <https://www.health.state.mn.us/diseases/hiv/prevention/uu/index.html>.
- NYC Health, "HIV: Undetectable Equals Untransmittable (U=U)," <https://www1.nyc.gov/site/doh/health/health-topics/hiv-u-u.page>.

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## HIV Prevention



- Safer sex practices like condom use
- Antiretroviral advances
  - Can reduce HIV viral load to undetectable levels making it less likely to be transmitted
- Post-exposure Prophylaxis (PEP)
  - For individuals who have been exposed to HIV
- Pre-exposure Prophylaxis (PrEP)
  - For HIV-negative individuals
  - Reduce the risk of being infected with HIV by 92%-99%

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## PrEP

PrEP (pre-exposure prophylaxis) is medicine people at risk for HIV take to prevent getting HIV from sex or injection drug use. When taken as prescribed, PrEP is highly effective for preventing HIV.

- CDC endorsed PrEP for HIV prevention in May 2014
- Once-daily pill
- Taken by individuals at high risk including, but not limited to:
  - People who inject drugs
  - People with HIV+ sexual partners
  - Individuals who intermittently or never use condoms



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## PrEP and Women



- Woman-controlled option to prevent HIV
- Does not require negotiation or disclosure such as with condom use
- Especially important for women experiencing intimate partner violence
- Yet, underutilized in women due to systemic barriers to access

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## PEP

**PEP** (post-exposure prophylaxis) means taking medicine to prevent HIV after a possible exposure.

PEP should be used only in emergency situations and must be started within 72 hours after a recent possible exposure to HIV.

- Taking medicine to prevent HIV after a possible exposure
  - During sex
  - Through needle sharing
  - Occupational exposures such as needle sticks
  - If sexually assaulted
- Only used in emergency situations
- Two antiretroviral medications taken daily for 28 days
- Afterwards, you need to return to doctor for a HIV test
- If you have frequent exposures to HIV, then PEP is not right for you. You should take PrEP.

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## HIV and COVID-19

- People with HIV may be more likely to get severely ill from COVID-19
- However, evidence suggests those virally suppressed are at no greater risk - booster is still generally recommended but should be at the advice of their physician
- Vaccines are safe for HIV-positive patient
  - A third dose of mRNA COVID-19 vaccination is recommended after the initial two doses
  - Booster shots are already available
- However:
  - It may not fully protect them
  - They should follow all precautions of an unvaccinated person
  - They should continue taking their ART (or PrEP for uninfected individuals)
    - Make sure you have a 30- to 90-day supply of medicine, if possible

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## Impact of COVID-19 on Care

- Some STIs and HIV rates decreased during the pandemic by approximately 2%
- Disruptions to care and testing likely impacted the number of cases reported
  - Disruptions to preventative care means fewer testing opportunities
- Presents challenges when tracking the two outbreaks currently happening



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### HIV PREVENTION

- CDC: Prevention Basics <https://www.cdc.gov/hiv/basics/prevention.html>
- NIH.GOV: The Basics of HIV Prevention: <https://www.cdc.gov/hiv/basics/prevention.html>

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# QUESTIONS?

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## CHATTER FALL

Please respond to following prompt by typing into the chat box

*Please share a curiosity you bring with you today about the science, screening and/ or assessment of SUD*

**Type your response and  
don't click enter.**

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Picture from Unsplash



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5-minute stretch break!



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## The Science of Addiction, Screening, and Assessment

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### Learning Objectives:

#### The Science of Addiction, Screening, and Assessment

I

Describe at least two ways in which dopamine influences OUD recovery and treatment

II

Explain the neurobiological contributions to developing and sustaining addiction

III

Define and distinguish screening, assessment, and American Society of Addiction Medicine (ASAM) level of care determination

IV

Identify and explain the complex interactions between HIV and SUD, such as viral load, treatment retention and compliance and retroviral resistance

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### Time for a Poll



Which of the following do you think is the *root* cause of substance use disorders?

- a) Personal choice and behaviors
- b) Impact of trauma and other adverse life events
- c) Abnormalities of neurochemicals in the brain
- d) I haven't decided yet

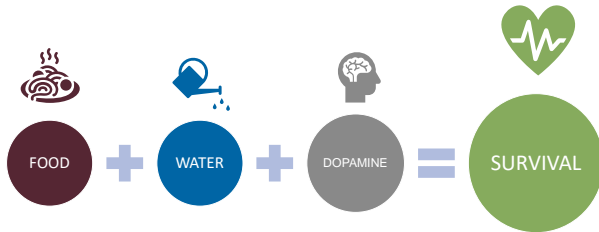
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Science of Addiction

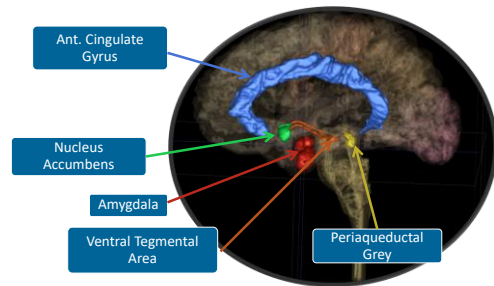


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Science of Addiction

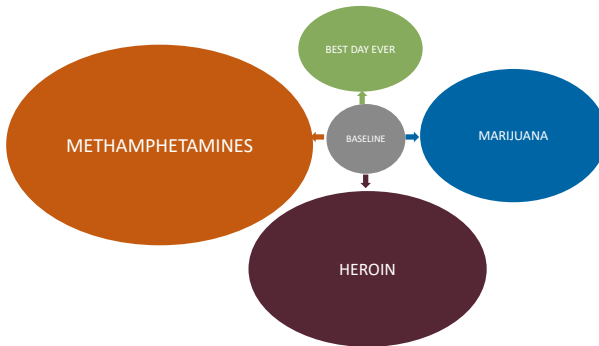


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Comparative Dopamine Production

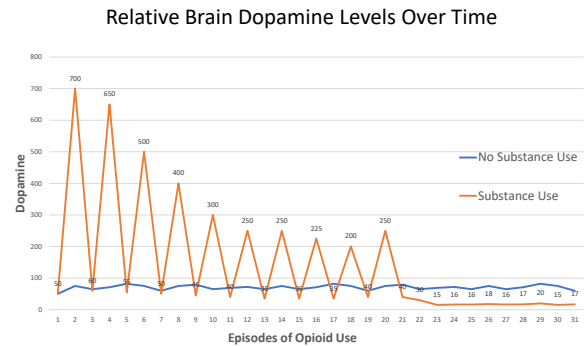


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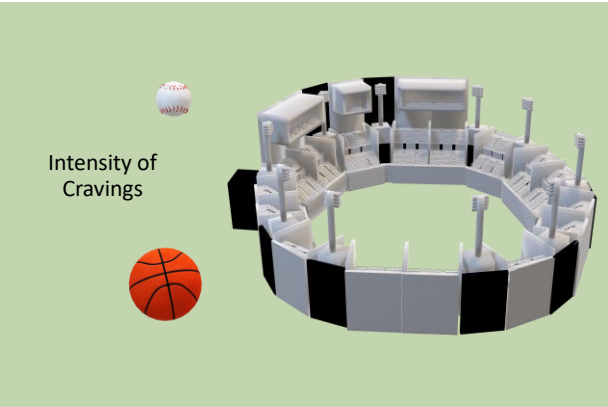
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Substances Affect on the Brain



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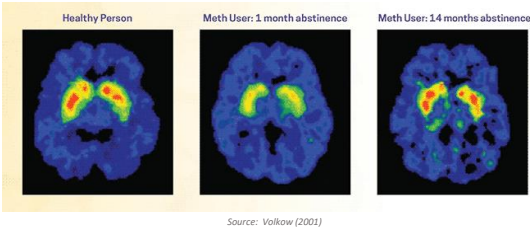
DSM-5: Diagnosis of Opioid Use Disorder (OUD)

TABLE 1 Summarized DSM-5 diagnostic categories and criteria for opioid use disorder	
Category	Criteria
Impaired control	<ul style="list-style-type: none"><li>• Opioids used in larger amounts or for longer than intended</li><li>• Unsuccessful efforts or desire to cut back or control opioid use</li><li>• Excessive amount of time spent obtaining, using, or recovering from opioids</li><li>• Craving to use opioids</li></ul>
Social impairment	<ul style="list-style-type: none"><li>• Failure to fulfill major role obligations at work, school, or home as a result of recurrent opioid use</li><li>• Persistent or recurrent social or interpersonal problems that are exacerbated by opioids or continued use of opioids despite these problems</li><li>• Reduced or given up important social, occupational, or recreational activities because of opioid use</li></ul>
Risky use	<ul style="list-style-type: none"><li>• Opioid use in physically hazardous situations</li><li>• Continued opioid use despite knowledge of persistent physical or psychological problem that is likely caused by opioid use</li></ul>
Pharmacological properties	<ul style="list-style-type: none"><li>• Tolerance as demonstrated by increased amounts of opioids needed to achieve desired effect; diminished effect with continued use of the same amount</li><li>• Withdrawal as demonstrated by symptoms of opioid withdrawal syndrome; opioids taken to relieve or avoid withdrawal</li></ul>

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Dopamine Depletion effects Recovery: It takes time for your brain to recover

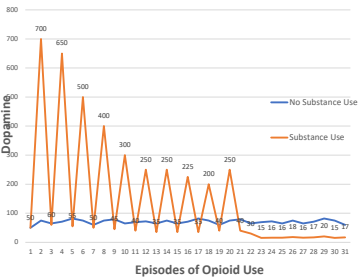
- + Prolonged drug use changes the brain in long lasting ways
- + Changes are both functional and structural
- + Return to normal dopamine production is under study (takes over 1 year)
- + Discontinuing treatment before brain recovery may affect outcomes



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Source: Volkow (2001)  
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Dopamine Depletion Effects Recovery



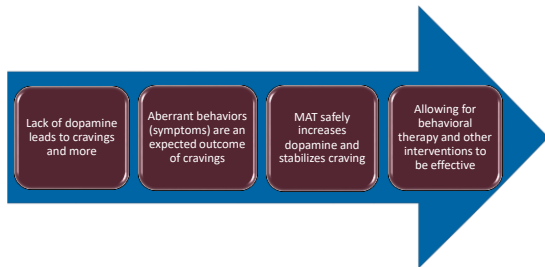
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Addressing Dopamine Depletion

- Medication Assisted Treatment (MAT) for opioid use disorder (OUD)/alcohol use disorder (AUD)
- Contingency Management
- Transitioning from external rewards to internal rewards

## Science of Addiction: Treatments



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## Time for a Poll



Which statement about screening & testing for SUD is the most accurate?

- A. Universal toxicology testing is the most equitable way to identify substance use disorder (SUD) across Minnesota.
- B. For some populations, screening for SUD using an evidence-based verbal screening tools is about as sensitive as using toxicology testing in identifying SUD.
- C. Urine and serum toxicology tests are so sensitive, their results don't require a confirmatory test.
- D. Hospitals can obtain a toxicology sample without obtaining consent.
- E. Decisions about what screening tools to use are generally made based on data from research studies.

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## Screening, Assessment, Level of Care

### + Screening:

A rapid evaluation to determine the possible presence (risk) of a condition (high sensitivity, usually low specificity)

### + Assessment:

A more detailed evaluation meant to solidify the presence of a disease and sometimes assess disease severity (lower sensitivity, high specificity)

### + Level of Care Determination:

Evaluation of various biopsychosocial and other factors to determine/recommend the most appropriate level of care for the severity of the condition identified (outpatient vs inpatient).

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## Screening

### WHEN TO SCREEN?

Key is to screen patients to determine who should have further assessment

Times not to screen:

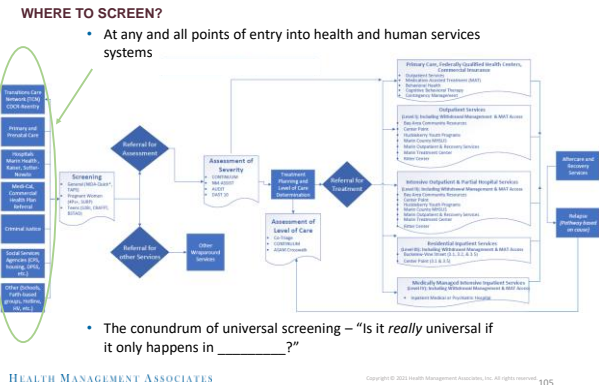
- + Recent screen → Set interval for repeat screening
- + Current/recent diagnosis of SUD
- + Presumptive positive
  - Legal involvement (substance related arrest, DUI)
  - Toxicology results
  - Patient report

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# Screening



# Screening

**VALIDATED SCREENING TOOLS**

- Screening tools are validated for use in specific populations
- Screening for co-morbid conditions and suicide is also critical

General Population	Pregnant Women	Youth
<ul style="list-style-type: none"><li>National Institute for Drug Addiction (NIDA) – Quick Screen</li><li>Tobacco, Alcohol, Prescription, and other Substances (TAPS)</li><li>AUDIT (Alcohol only)</li><li>Patient History Questionnaire (PHQ-9)</li><li>General Anxiety Disorder (GAD-7)</li><li>PTSD Checklist (PCL-5)</li><li>Columbia Suicide Severity Rating Scale (C-CCRS)</li></ul>	<ul style="list-style-type: none"><li>NIDA – Quick Screen* + 4 P's plus (license fee)</li><li>Substance Use Risk Profile – Pregnancy (SURP)</li><li>CRAFFT – for 12 -26 yo women (Car, Relax, Alone, Forget, Friend/Family, Trouble)</li><li>Perinatal Mood and Anxiety Disorder (PMAD) – Edinburgh, PHQ-9</li></ul>	<ul style="list-style-type: none"><li>Brief Screener for Alcohol, Tobacco and other Drugs (BSTAD) (12-17yo)</li><li>Screening to Brief Intervention (S2BI) (12-17yo)</li><li>Problem oriented screening instrument for Teens (POSIT)</li><li>CRAFFT*</li></ul>

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# Screening

**A BRIEF WORD ABOUT TOXICOLOGY TESTING TERMINOLOGY**

- Screen:** a qualitative (detected/ not detected) test; usually designed to detect many drug classes; confidence in results may be poor but depends on the assay. Also called preliminary immunoassay point of care test (POC).
  - Make sure you know what is covered by your toxicology panel
- Confirmation:** a test designed for very high confidence in identification of individual drugs/compounds; may be qualitative or quantitative (reports the amount of drug present).
- Cutoff:** the concentration above which the substances is indicated as detected & below which the result indicates the substance was not detected; defined by the “kit” manufacturer, or by the limit of quantification (LOQ).
  - Knowing your lab cutoff values can avoid action on false positives (e.g., poppy seeds, oxycodone and hydrocodone)

# Screening: Is There a Role of Toxicology Testing?

- Typically does not test for alcohol or tobacco use
- Potential for false positive and false negative results
- Complicated relationship between toxicology and child welfare involvement
- Test results do not assess parenting capabilities or other qualities
- Often applied selectively
- Lab cut-off points for sensitivity
- Positive toxicology test does not establish the diagnosis of SUD



## Screening

### BEST PRACTICES FOR SCREENING: USE MOTIVATIONAL INTERVIEWING TO START A CONVERSATION

- + “An important part of primary care/prenatal care [supporting you to stay with / reclaim custody of your baby] is screening for any risky conditions. Some of these conditions can be scary to talk about but are pretty common. Also, no matter the issue we have the ability to help work through it.”

Is it ok if I ask you some questions about those risks?

- + *For someone in treatment...* We’re doing a urine drug test today, will there be any findings on that test I’m not expecting?

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## Poll Answer

### WHICH STATEMENT ABOUT SCREENING & TESTING FOR SUD IS THE MOST ACCURATE?

- Universal toxicology testing is the most equitable way to identify substance use disorder (SUD) across Minnesota.
- For some populations, screening for SUD using an evidence-based verbal screening tools is about as sensitive as using toxicology testing in identifying SUD.**
- Urine and serum toxicology tests are so sensitive, their results don’t require a confirmatory test.
- Hospitals can obtain a toxicology sample without obtaining consent.
- Decisions about what screening tools to use are generally made based on data from research studies.

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## S(A)BIRT

### SCREENING BRIEF INTERVENTION AND REFERRAL TO TREATMENT (SBIRT/SABIRT)

- ✓ **Screening** – universal screening for substance use and impact of that use
- ✓ **[Assessment]** – use of validated assessment tool to determine diagnosis and severity
  - Alcohol Use Disorders Identification Test (AUDIT)
  - Drug Abuse Screening Test (DAST-10)
  - Alcohol, Smoking and Substance Involvement Screening Test (NM-ASSIST)
- ✓ **Brief intervention** – use of motivational interviewing concepts to reduce problematic substance use
- ✓ **Referral to treatment** – referral to specialty substance use treatment or, in some cases, simply referral to continued assessment and follow up with their primary provider



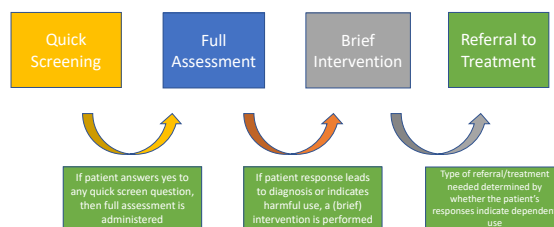
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## S(A)BIRT

### S(A)BIRT FLOW



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## CHATTER FALL

We will have **two** Chatter fall questions.

Please take a minute to type your response in the Zoom Group Chat, but don't click enter.

*What have been the biggest challenges to implementation of screening in your setting?*

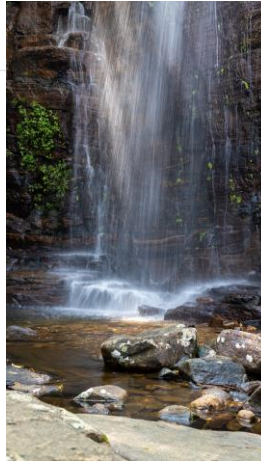
*What strategies have you used to overcome those challenges?*

**Type your response and  
don't click enter.**

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Picture from iStockphoto



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## Assessment

### OBJECTIVES OF A BIO-PSYCHO-SOCIAL ASSESSMENT (BPS)

- + A comprehensive biopsychosocial assessment provides:
  - + Insight into the patient's past and current life experience
  - + Provides data to make an accurate (preliminary) diagnosis
  - + An opportunity to build rapport with the patient
  - + Provides information needed to make an accurate level of care determination
  - + American Society of Addiction Medicine (ASAM) Level of Care criteria cover biopsychosocial

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## Assessment

### BIOPSYCHOSOCIAL ASSESSMENT

- + A comprehensive biopsychosocial assessment includes:
  - + General information (housing status including who live with, religious affiliation, referral source, insurance)
  - + Medical information (past/present medical conditions, medications, surgeries, childbirths, hospitalizations)
  - + Education and Employment (highest grade, difficulty in school, past and current employment, income (legal and illegal), dependents, Social Security Benefits/Disability Benefits (SSI/SSDI), date of last employment, skill trade or technical education)
  - + Legal (past and current legal issues, arrests, charges, convictions, DUI, other driving offenses, incarceration time)

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## Assessment

### BIOPSYCHOSOCIAL ASSESSMENT CONT.

- + Psychological (Mini mental status exam; current and past medications, inpatient and outpatient treatment, anxiety, depression, hallucinations, suicidal or homicidal)
- + Family and Social (who raised, siblings, past and current relationship with family, family with past/current SUD and Department of Corrections (DOC), children, partner (with SUD?), friends and supports, hobbies, spirituality, marital status)
- + SUD (substance(s)) first used and date of first use, how many days used in past 30, lifetime use and route of administration of every substance
  - + Substance(s) of choice, date of last use, overdose, and/or delirium tremens (DTs)
    - + If yes, how many times
    - + Assess use of safe drug practices
  - + SUD treatment type and level of care (past, current, and # of times), MAT (past, current and # of times, if currently on buprenorphine or methadone), \$\$ spent on substances in last 30 days
- + Examples of evidence-based assessment tools:
  - + NIDA Modified Assist –(not a BPS) –public domain
  - + Brief Addiction Monitor (BAM) – public domain
  - + Addiction Severity Index – public domain

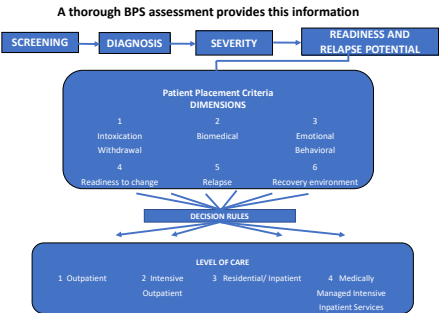
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Assessment, Level of Care

THE AMERICAN SOCIETY OF ADDICTION MEDICINE (ASAM) CRITERIA:  
MAPPING ASSESSMENT TO PLACEMENT



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Level of Care (LOC) Determination

ABBREVIATED EXAMPLE OF ASAM ADULT LEVELS OF CARE

Levels of Care Dimension	1. OUTPT	2. INTENSIVE OUTPT	3. MED MON INPT	4. MED MGD INPT
Acute Intoxication and/or Withdrawal Potential	No Risk	Minimal	Some risk	Severe risk 24-hr acute
Biomedical Conditions and Complications	No Risk	Manageable	Medical monitoring required	Medical Care Required
Emotional, Behavioral, or Cognitive Conditions and Complications	No Risk	Mild severity	Moderate	24-hour psych. & addiction Tx required
Readiness to Change	Cooperative	Cooperative but requires structure	High resistance, needs 24-hour motivating	
Relapse, Continued Use, or Continued Problem Potential	Maintains abstinence or controls use	More symptoms, needs close monitoring	Unable to control use in outpatient care	
Recovery/Living Environment	Supportive	Less support with structure can cope	Danger to recovery. Logistical incapacity for outpatient	

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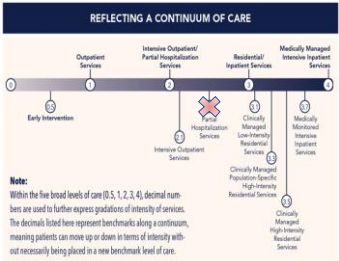
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Level of Care (LOC) Determination

+ ASAM Criteria is Gold Standard

- + CONTINUUM® and Co-triage® tool
- + Criteria are required in assessment tools used by providers
- + Complete for high/severe assessments
- + Available online
- + Done by RN, LCSW, PA/NP, or MD/DO
- + Part of SBIRT payment

Source: The ASAM Criteria: Treatment Criteria for Addictive, Substance-Related, and Co-Occurring Conditions (2013).



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ASAM and Level of Care (LOC) Determination in MN

MN Medicaid Section 1115 Waiver and related legislation requires that providers of SUD services use the ASAM Level of Care criteria

- + The legislation codifies required service standards for participating providers that are consistent with ASAM criteria
- + “All 87 Minnesota counties, 11 American Indian Tribes, and eight managed care organizations (MCOs) are required to conduct an assessment that incorporates the six dimensions of the ASAM placement criteria”
  - + Risk rating
  - + Narrative summary supporting the rating
  - + Determination of SUD diagnosis
  - + Info relevant to treatment service planning

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## ASAM and Level of Care (LOC) Determination in MN (cont.)

- + Providers enrolled in the 1115 demonstration evaluating use of the criteria must be compliant with the ASAM-based Standards by June 30, 2021
- + Other requirements
  - + Comprehensive assessment (c/w with ASAM criteria)
  - + Assessment summary within 3 calendar days after service initiation (or same day if comprehensive assessment is used to authorize services)
  - + Initial Services Plan
- + The state is planning to implement a requirement that residential SUD treatment facilities offer MAT services onsite or facilitate MAT access offsite at an appropriate facility.

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## 1115 Waiver Assessment and Placement Grid

 DEPARTMENT OF HUMAN SERVICES

ASAM Criteria (per ASAM, 2013) - LOC, Treatment and Recovery Services											
ASAM Criteria Level of Care	Dimension 1 Acute or chronic relapse potential	Dimension 2 Substance use complexity	Dimension 3 Medical or psychiatric comorbidity	Dimension 4 Readiness to change	Dimension 5 Relapse potential if untreated	Dimension 6 Readiness to change					
Continuum Score	0	1	2	3	4	5	6	7	8	9	10
Continuum Score	0.5	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5
Continuum Score	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5	11.5
Continuum Score	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5	11.5	12.5
Continuum Score	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5	11.5	12.5	13.5
Continuum Score	4.5	5.5	6.5	7.5	8.5	9.5	10.5	11.5	12.5	13.5	14.5
Continuum Score	5.5	6.5	7.5	8.5	9.5	10.5	11.5	12.5	13.5	14.5	15.5
Continuum Score	6.5	7.5	8.5	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5
Continuum Score	7.5	8.5	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5
Continuum Score	8.5	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5
Continuum Score	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5
Continuum Score	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5
Continuum Score	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5
Continuum Score	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5
Continuum Score	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5
Continuum Score	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5
Continuum Score	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5
Continuum Score	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	26.5
Continuum Score	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	26.5	27.5
Continuum Score	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	26.5	27.5	28.5
Continuum Score	19.5	20.5	21.5	22.5	23.5	24.5	25.5	26.5	27.5	28.5	29.5
Continuum Score	20.5	21.5	22.5	23.5	24.5	25.5	26.5	27.5	28.5	29.5	30.5
Continuum Score	21.5	22.5	23.5	24.5	25.5	26.5	27.5	28.5	29.5	30.5	31.5
Continuum Score	22.5	23.5	24.5	25.5	26.5	27.5	28.5	29.5	30.5	31.5	32.5
Continuum Score	23.5	24.5	25.5	26.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5
Continuum Score	24.5	25.5	26.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5
Continuum Score	25.5	26.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5
Continuum Score	26.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5
Continuum Score	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5
Continuum Score	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5
Continuum Score	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5
Continuum Score	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5
Continuum Score	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5
Continuum Score	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5
Continuum Score	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5	43.5
Continuum Score	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5	43.5	44.5
Continuum Score	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5	43.5	44.5	45.5
Continuum Score	36.5	37.5	38.5	39.5	40.5	41.5	42.5	43.5	44.5	45.5	46.5
Continuum Score	37.5	38.5	39.5	40.5	41.5	42.5	43.5	44.5	45.5	46.5	47.5
Continuum Score	38.5	39.5	40.5	41.5	42.5	43.5	44.5	45.5	46.5	47.5	48.5
Continuum Score	39.5	40.5	41.5	42.5	43.5	44.5	45.5	46.5	47.5	48.5	49.5
Continuum Score	40.5	41.5	42.5	43.5	44.5	45.5	46.5	47.5	48.5	49.5	50.5
Continuum Score	41.5	42.5	43.5	44.5	45.5	46.5	47.5	48.5	49.5	50.5	51.5
Continuum Score	42.5	43.5	44.5	45.5	46.5	47.5	48.5	49.5	50.5	51.5	52.5
Continuum Score	43.5	44.5	45.5	46.5	47.5	48.5	49.5	50.5	51.5	52.5	53.5
Continuum Score	44.5	45.5	46.5	47.5	48.5	49.5	50.5	51.5	52.5	53.5	54.5
Continuum Score	45.5	46.5	47.5	48.5	49.5	50.5	51.5	52.5	53.5	54.5	55.5
Continuum Score	46.5	47.5	48.5	49.5	50.5	51.5	52.5	53.5	54.5	55.5	56.5
Continuum Score	47.5	48.5	49.5	50.5	51.5	52.5	53.5	54.5	55.5	56.5	57.5
Continuum Score	48.5	49.5	50.5	51.5	52.5	53.5	54.5	55.5	56.5	57.5	58.5
Continuum Score	49.5	50.5	51.5	52.5	53.5	54.5	55.5	56.5	57.5	58.5	59.5
Continuum Score	50.5	51.5	52.5	53.5	54.5	55.5	56.5	57.5	58.5	59.5	60.5
Continuum Score	51.5	52.5	53.5	54.5	55.5	56.5	57.5	58.5	59.5	60.5	61.5
Continuum Score	52.5	53.5	54.5	55.5	56.5	57.5	58.5	59.5	60.5	61.5	62.5
Continuum Score	53.5	54.5	55.5	56.5	57.5	58.5	59.5	60.5	61.5	62.5	63.5
Continuum Score	54.5	55.5	56.5	57.5	58.5	59.5	60.5	61.5	62.5	63.5	64.5
Continuum Score	55.5	56.5	57.5	58.5	59.5	60.5	61.5	62.5	63.5	64.5	65.5
Continuum Score	56.5	57.5	58.5	59.5	60.5	61.5	62.5	63.5	64.5	65.5	66.5
Continuum Score	57.5	58.5	59.5	60.5	61.5	62.5	63.5	64.5	65.5	66.5	67.5
Continuum Score	58.5	59.5	60.5	61.5	62.5	63.5	64.5	65.5	66.5	67.5	68.5
Continuum Score	59.5	60.5	61.5	62.5	63.5	64.5	65.5	66.5	67.5	68.5	69.5
Continuum Score	60.5	61.5	62.5	63.5	64.5	65.5	66.5	67.5	68.5	69.5	70.5
Continuum Score	61.5	62.5	63.5	64.5	65.5	66.5	67.5	68.5	69.5	70.5	71.5
Continuum Score	62.5	63.5	64.5	65.5	66.5	67.5	68.5	69.5	70.5	71.5	72.5
Continuum Score	63.5	64.5	65.5	66.5	67.5	68.5	69.5	70.5	71.5	72.5	73.5
Continuum Score	64.5	65.5	66.5	67.5	68.5	69.5	70.5	71.5	72.5	73.5	74.5
Continuum Score	65.5	66.5	67.5	68.5	69.5	70.5	71.5	72.5	73.5	74.5	75.5
Continuum Score	66.5	67.5	68.5	69.5	70.5	71.5	72.5	73.5	74.5	75.5	76.5
Continuum Score	67.5	68.5	69.5	70.5	71.5	72.5	73.5	74.5	75.5	76.5	77.5
Continuum Score	68.5	69.5	70.5	71.5	72.5	73.5	74.5	75.5	76.5	77.5	78.5
Continuum Score	69.5	70.5	71.5	72.5	73.5	74.5	75.5	76.5	77.5	78.5	79.5
Continuum Score	70.5	71.5	72.5	73.5	74.5	75.5	76.5	77.5	78.5	79.5	80.5
Continuum Score	71.5	72.5	73.5	74.5	75.5	76.5	77.5	78.5	79.5	80.5	81.5
Continuum Score	72.5	73.5	74.5	75.5	76.5	77.5	78.5	79.5	80.5	81.5	82.5
Continuum Score	73.5	74.5	75.5	76.5	77.5	78.5	79.5	80.5	81.5	82.5	83.5
Continuum Score	74.5	75.5	76.5	77.5	78.5	79.5	80.5	81.5	82.5	83.5	84.5
Continuum Score	75.5	76.5	77.5	78.5	79.5	80.5	81.5	82.5	83.5	84.5	85.5
Continuum Score	76.5	77.5	78.5	79.5	80.5	81.5	82.5	83.5	84.5	85.5	86.5
Continuum Score	77.5	78.5	79.5	80.5	81.5	82.5	83.5	84.5	85.5	86.5	87.5
Continuum Score	78.5	79.5	80.5	81.5	82.5	83.5	84.5	85.5	86.5	87.5	88.5
Continuum Score	79.5	80.5	81.5	82.5	83.5	84.5	85.5	86.5	87.5	88.5	89.5
Continuum Score	80.5	81.5	82.5	83.5	84.5	85.5	86.5	87.5	88.5	89.5	90.5
Continuum Score	81.5	82.5	83.5	84.5	85.5	86.5	87.5	88.5	89.5	90.5	91.5
Continuum Score	82.5	83.5	84.5	85.5	86.5	87.5	88.5	89.5	90.5	91.5	92.5
Continuum Score	83.5	84.5	85.5	86.5	87.5	88.5	89.5	90.5	91.5	92.5	93.5
Continuum Score	84.5	85.5	86.5	87.5	88.5	89.5	90.5	91.5	92.5	93.5	94.5
Continuum Score	85.5	86.5	87.5	88.5	89.5	90.5	91.5	92.5	93.5	94.5	95.5
Continuum Score	86.5	87.5	88.5	89.5	90.5	91.5	92.5	93.5	94.5	95.5	96.5
Continuum Score	87.5	88.5	89.5	90.5	91.5	92.5	93.5	94.5	95.5	96.5	97.5
Continuum Score	88.5	89.5	90.5	91.5	92.5	93.5	94.5	95.5	96.5	97.5	98.5
Continuum Score	89.5	90.5	91.5	92.5	93.5	94.5	95.5	96.5	97.5	98.5	99.5
Continuum Score	90.5	91.5	92.5	93.5	94.5	95.5	96.5	97.5	98.5	99.5	100.5
Continuum Score	91.5	92.5	93.5	94.5	95.5	96.5	97.5	98.5	99.5	100.5	101.5
Continuum Score	92.5	93.5	94.5	95.5	96.5	97.5	98.5	99.5	100.5	101.5	102.5
Continuum Score	93.5	94.5	95.5	96.5	97.5	98.5	99.5	100.5	101.5	102.5	103.5
Continuum Score	94.5	95.5	96.5	97.5	98.5	99.5	100.5	101.5	102.5	103.5	104.5
Continuum Score	95.5	96.5	97.5	98.5	99.5	100.5	101.5	102.5	103.5	104.5	105.5
Continuum Score	96.5	97.5	98.5	99.5	100.5	101.5	102.5	103.5	104.5	105.5	106.5
Continuum Score	97.5	98.5	99.5	100.5	101.5	102.5	103.5	104.5	105.5	106.5	107.5
Continuum Score	98.5	99.5	100.5	101.5	102.5	103.5	104.5	105.5	106.5	107.5	108.5
Continuum Score	99.5	100.5	101.5	102.5	103.5	104.5	105.5	106.5	107.5	108.5	109.5

## Level of Care (LOC) Determination: Summary

- Comprehensive assessment requires evaluation of all 6 Dimensions
- Additional assessments better positions us to fully address a client's needs
- Treatment planning can begin before LOC determination
- The LOC might have to change based on availability, but it doesn't mean we can't get started
- Where someone gets care really matters
- Implementation of ASAM assessment criteria is evolving in MN

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## Group Discussion

*What concepts from today's discussion about the science of SUD, screening, assessment and LOC determination will stick with you (any "ah ha" moments?) and how can you put that to use in your work?*

Use the "raise your hand" feature in Zoom or simply come off mute.



Picture from Unsplash

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# QUESTIONS?

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## Next Steps

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- Join us for **Session 2 next Wednesday!**
- Your registration should have included a reoccurring calendar invite for all four sessions
- **Please complete the evaluation for this session that will be sent out after via email (those requests CEU/CME must complete the evaluations).**

Follow-up questions?  
cmcintire@healthmanagement.com