

Integrating Care: The Role of MOUD in Addressing Opioid Use Disorder and Infectious Disease

January 29, 2025

Daniel Rosa, MD, FASAM

Housekeeping

- Today's webinar is being recorded and all participants will be kept in listen only mode. There will be an opportunity to ask questions at the end of the webinar, so we encourage you to please submit your questions throughout the webinar in the Q&A box located at the bottom of your screen.
- The recording and slides will be made available on the PCSS-MOUD website within 2 weeks.
- Within 24 hours of today's session, you will receive an email from granteducation@aaap.org with evaluation and certificate claiming information.

The content of this activity may include discussion of off label or investigative drug uses.

The faculty is aware that is their responsibility to disclose this information.

Funder Information

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- The overarching goal of PCSS-MOUD is to increase healthcare professionals' knowledge, skills, and confidence in providing evidence-based practices in the prevention, treatment, recovery, and harm reduction of OUD.

Disclosure to Learners

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Presenter(s), planner(s), reviewer(s), and all others involved in the planning or content development of this activity were required to disclose all financial relationships within the past 24 months

All disclosures have been reviewed, and there are no relevant financial relationships with ineligible companies to disclose.

All speakers have been advised that any recommendations involving clinical medicine must be based on evidence that is accepted within the profession of medicine as adequate justification for their indications and contraindications in patient care. All scientific research referred to, reported, or used in the presentation must conform to the generally accepted standards of experimental design, data collection, and analysis.



Educational Objectives

- Examine the connection between OUD and infectious disease.
- Discuss increased risk for infections among individuals with OUD.
- Describe the benefits of MOUD and integrated healthcare services in preventing and treating OUD and infectious disease.
- Identify unique barriers and solutions for access to MOUD services and infectious disease care.

Today's Speaker



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Professional Background



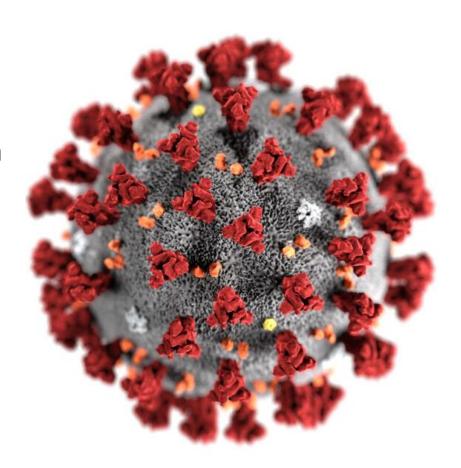






COVID-19 and Substance Use

- Having SUD increases the risk of COVID-19 infection.
- Individuals with SUD have an increased risk of severe complications from COVID-19 infection.
- Having SUD increases the risk of death from COVID-19 infection.



Long COVID Infection

- Long COVID is defined as a chronic condition that occurs after SARS-CoV-2 infection and is present for at least 3 months.
- Long COVID can include a range of symptoms and conditions which can persist for weeks, months, or even years after COVID-19 illness.

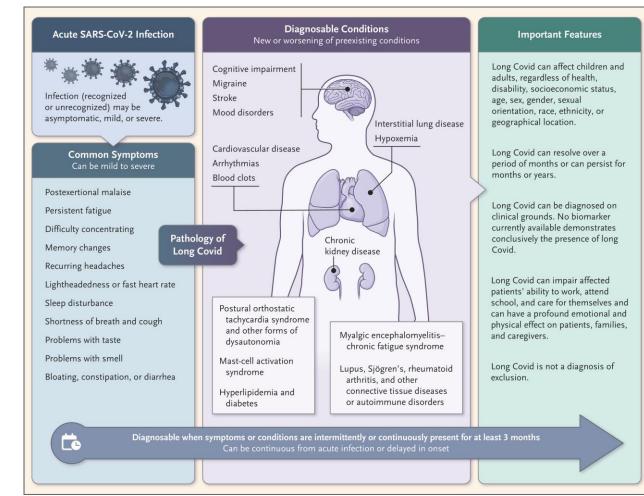
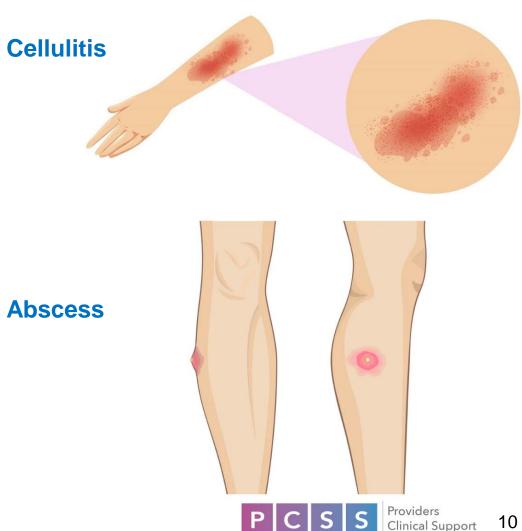


Image Source: Wesley et al. (2024) https://www.nejm.org/doi/full/10.1056/NEJMsb 2408466



Skin Infections and Substance Use

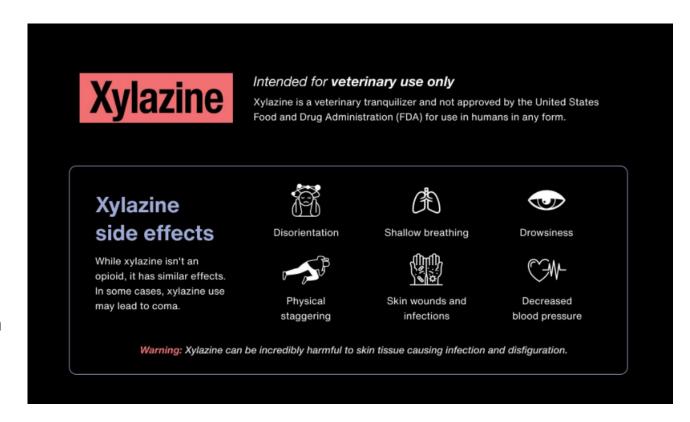
- Skin infections either locally at sites of injection or at sites remote of injection can lead to local consequences or life-threatening blood infections (sepsis).
- These pathogens can cause death within hours.



System

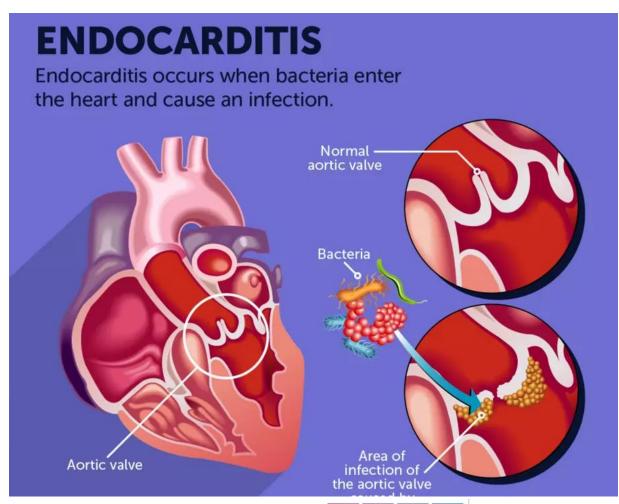
Opioid: Xylazine

- The adulteration of the current drug supply with the veterinary drug Xylazine has led to a much more complicated approach to the management of OUD.
- Some individuals develop deep-seated necrotic ulcerative skin lesions either at sites of injection or distant to those injections.



Endocarditis and Opioid Use Disorder

- A very serious complication that may come from OUD is infection of the valvular structures of the heart called endocarditis.
- Endocarditis
 occurs when
 bacteria enter the
 heart and cause an
 infection.



Oral Hygiene, SUD, and Infectious Disease



Image source: Wikipedia, n.d.

Xerostomia



Bruxism

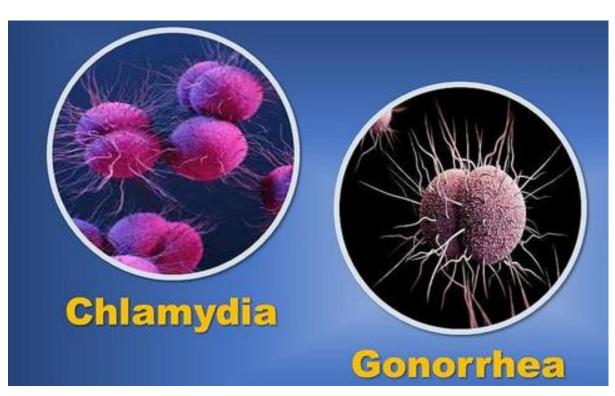


- There is an association between poor oral health and SUD.
- Oral conditions in patients with SUD (e.g., poor oral hygiene, changes in salivary pH) can lead to progressive cavities and maxillofacial infections.
- Opioid use can lead to salivary hypofunction which can cause xerostomia, cavities, burning mouth and taste impairment.
- Opioids also induce a preference for sweet foods.
- Its important to note that MOUD can also impact oral health.

Source: Cuberos et al. (2020);



Infectious Disease: Chlamydia versus Gonorrhea



- Research indicates that people who inject drugs (PWID) are at an increased risk for acquiring STDs.
- Modern testing techniques are quick and non-invasive and provide sensitivity and specificity in the high 90%.

Image source: Medasia, 2023

Infectious Disease: Syphilis

- In 2023, there was a total of 210,921 cases of syphilis in the United States.
- Simple blood tests should be routinely performed in those at high risk.



Image source: Select Family Practice, 2023

Infectious Disease: Herpes



 According to recent data from World Health Organization, The Herpes Virus Type 2 has infected around 846 million people aged between 15 and 49 globally.

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Medications for Opioid Use Disorders

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Infectious Disease: Yeast Candidiasis - Oral Thrush





Image source: Shutterstock, 2024

- Individuals who report oral drug use have almost 7x higher odds of experiencing oral thrush than other routes. of administration
- Oral drug use may cause dry mouth, disrupting saliva's natural defense again thrush
 - Saliva contains antibodies and enzymes that control oral yeast levels

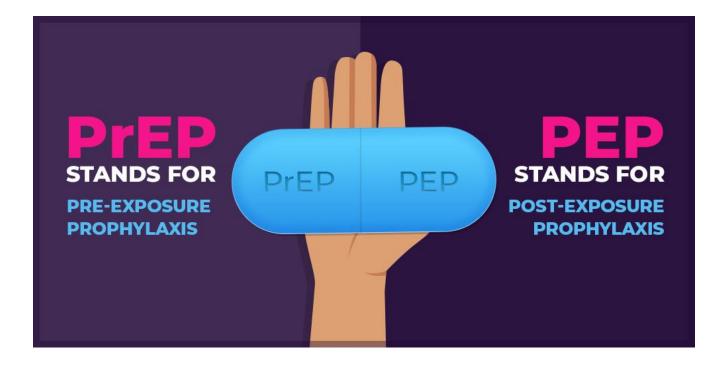
Infectious Disease: Human Immunodeficiency Virus (HIV)

- Though HIV can now be treated with a once daily regimen, it is still very much a concern for people who use drugs.
- Sharing of needles and unprotected sex places individuals at high risk for infection.

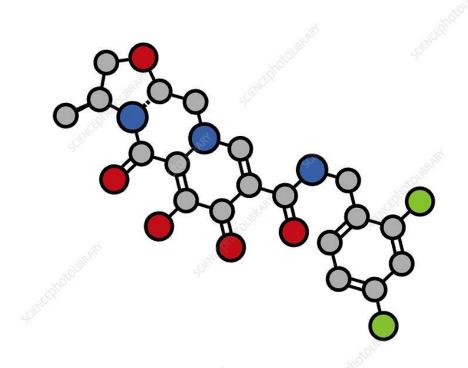


HIV Treatment

 In high-risk populations it is important to be hyperaware that the best practice is to identify those at risk and offer Pre-Exposure Prophylaxis.



HIV Treatment Continued



cabotegravir

2019 National Institute of Health (NIH) Trial



NIH Trial evaluates long-acting HIV medication in people unable to adhere to strict daily regimens.



Author:
National Institute of
Allergy and
Infectious Diseases
(NIAID)



Date: March 9, 2019



Means of Study:
Compares monthly
injectable
antiretroviral therapy
to daily oral drugs



compares monthly injectable antiretroviral therapy to daily oral drugs



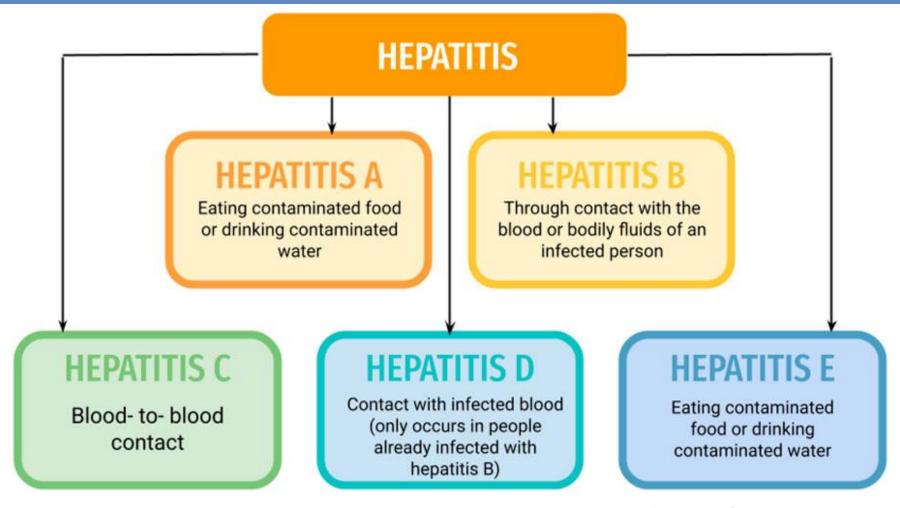
Source: National Institute of Health (NIH)



Harm Reduction and Preventative Health Care for OUD, SUD and Infectious Diseases



Infectious Disease: Hepatitis



Infectious Disease: Hepatitis

- 2.4 million
 people are
 estimated to be
 living with
 Hepatitis C in the
 United States.
- If left untreated, healthy livers become increasingly fibrotic and scarred.

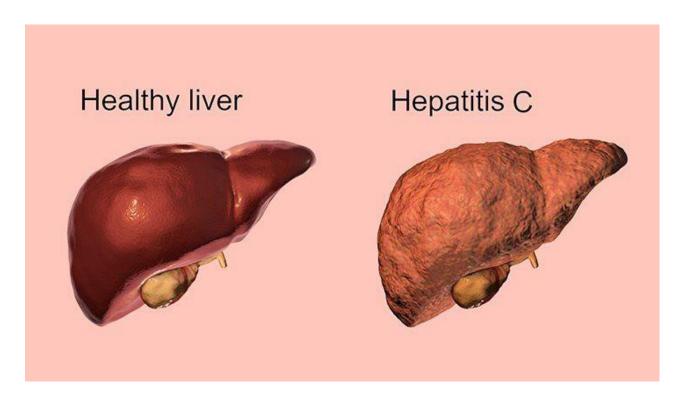


Image source: iStock, n.d
Source: Data and Trends | HHS.gov.

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Hepatitis Treatment: HepB Vaccination

- Studies indicate that immunity persists for at least 30 years among healthy people who initiate HepB vaccination at less than 6 months of age.
- Vaccine schedule:
 - 1st dose on presentation
 - 2nd dose one month later
 - 3rd dose 6 months after
 1st dose

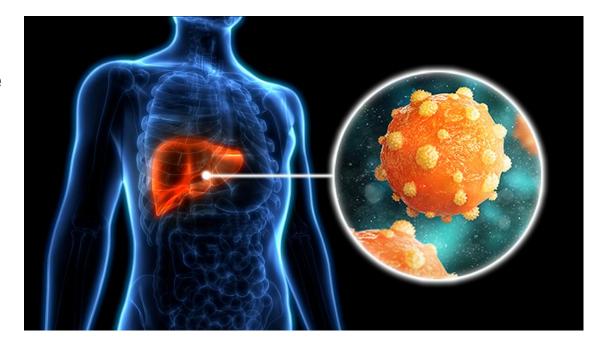
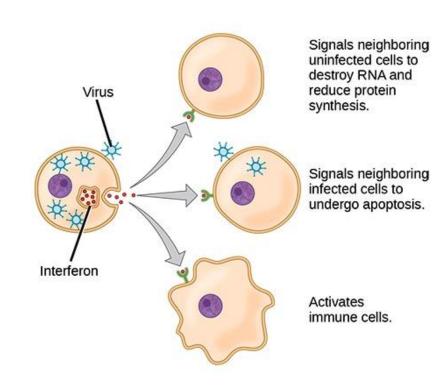


Image Source: CDC, 2024.

Source: <u>CDC, 2024</u>

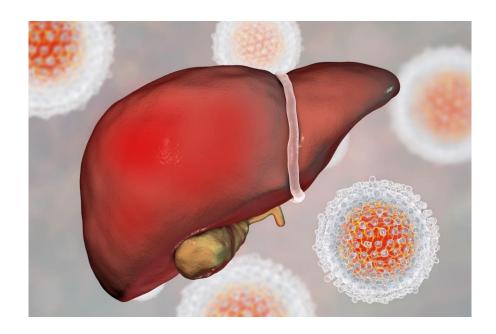
Interferon in Hepatitis C

- Monotherapy
 - Standard interferon: 3 million units of injection 3x per week (Low sustained virologic response)
- Combination Therapy
 - Standard interferon: Ribivarin
 - Pegylated interferon with Ribivarin
- 99% cure rates with either 2 or 3 month pill regimen options



Hepatitis Treatment: Antivirals

- Though Hepatitis B is not curable, Hepatitis C is.
- Hepatitis C virus is an RNA virus and does not integrate into the liver cell DNA.
- 99% cure rates with either 2 or 3-month pill regimen options.



Infectious Disease: Tuberculosis

 According to the CDC, approximately 13 million individuals in the United States are positive for latent Tuberculosis and are not aware of it.

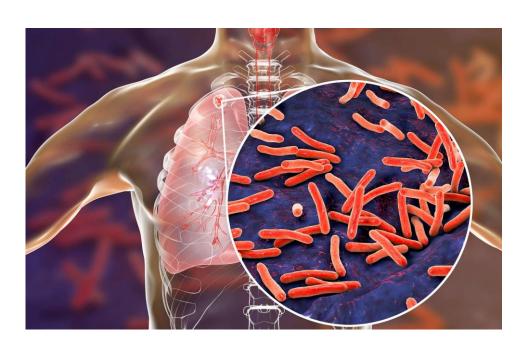




Image Source: University of Florida Emerging Pathogens Institute, 2024

Image Source: MedlinePlus, National Library of Medicine

Tuberculosis: Testing

- The Purified Protein
 Derivative Test (PPD):
 injecting a small amount
 of purified protein
 derivative under the
 skin.
- Individuals must return 2 or 3 days following for a reading.
- Easier testing solution: single blood draw.

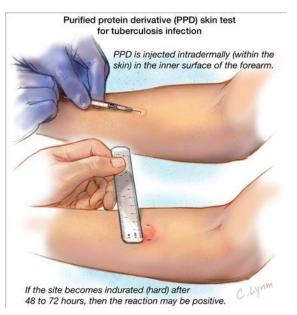


Image Source: Berrien County Health Department



Image Source: NMS Health



Questions?



Thank You!!!

Daniel Rosa: drosa@promesa.org

PCSS-MOUD Mentoring Program

- PCSS-MOUD Mentor Program is designed to offer general information to clinicians about evidence-based clinical practices in prescribing medications for opioid use disorder.
- PCSS-MOUD Mentors are a national network of providers with expertise in addictions, pain, and evidence-based treatment including medications for opioid use disorder (MOUD).
- 3-tiered approach allows every mentor/mentee relationship to be unique and catered to the specific needs of the mentee.
- No cost.

For more information visit:

https://pcssNOW.org/mentoring/

PCSS-MOUD Discussion Forum



http://pcss.invisionzone.com/register



PCSS-MOUD is a collaborative effort led by the American Academy of Addiction Psychiatry (AAAP) in partnership with:

Addiction Policy Forum	American College of Emergency Physicians*
Addiction Technology Transfer Center*	American College of Medical Toxicology
African American Behavioral Health Center of Excellence	American Dental Association
All Rise	American Medical Association*
American Academy of Child and Adolescent Psychiatry	American Orthopedic Association
American Academy of Family Physicians	American Osteopathic Academy of Addiction Medicine*
American Academy of Neurology	American Psychiatric Association*
American Academy of Pain Medicine	American Psychiatric Nurses Association*
American Academy of Pediatrics*	American Society for Pain Management Nursing
American Association for the Treatment of Opioid Dependence	American Society of Addiction Medicine*
American Association of Nurse Practitioners	Association for Multidisciplinary Education and Research in Substance Use and Addiction*
American Association of Psychiatric Pharmacists	Black Faces Black Voices
American Chronic Pain Association	Coalition of Physician Education



PCSS-MOUD is a collaborative effort led by the American Academy of Addiction Psychiatry (AAAP) in partnership with:

Columbia University, Department of Psychiatry*	Northwest Portland Area Indian Health Board
Council on Social Work Education*	Partnership to End Addiction
Faces and Voices of Recovery	Physician Assistant Education Association
Mobilize Recovery	Project Lazarus
NAADAC Association for Addiction Professionals*	Public Health Foundation (TRAIN Learning Network)
National Alliance for HIV Education and Workforce Development	Sickle Cell Adult Provider Network
National Association of Community Health Centers	Society for Academic Emergency Medicine*
National Association of Social Workers*	Society of General Internal Medicine
National Council for Mental Wellbeing*	The National Judicial College
National Council of State Boards of Nursing	Veterans Health Administration



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