2024 Lipscomb University - Co-Occurring Mental Health and Substance Use Disorder Conference

Opioid Use Disorder and Co-Occurring Disorders

David Marcovitz, MD

Associate Professor of Psychiatry and Behavioral Sciences Director, Middle TN Hub for Opioid Use Disorder Vanderbilt University Medical Center

Presenter Disclosure Statement:

Dr. Marcovitz has disclosed he has equity in Better Life Partners, LLC and Eos Consulting LLC. Dr. Marcovitz's presentation has been peer-reviewed for clinical validation, balance, and bias.

Learning objectives

- Describe national trends in prevalence of opioid use disorder
- Discuss the chronic disease approach to opioid use disorder and its corollaries
- Discuss the incidence of co-occurring psychiatric and substance use disorders for alcohol, opioid and stimulant use disorder
- Describe an approach for diagnosing co-occurring nonsubstance psychiatric conditions in the presence of an SUD

What is the state of the opioid crisis nationally and locally?



Substance Use Disorder (SUD) Prevalence

40 Million or>1 in 7

AGES 12 AND OLDER HAVE A SUBSTANCE PROBLEM... ...THIS IS MORE THAN THE NUMBER OF AMERICANS WITH:



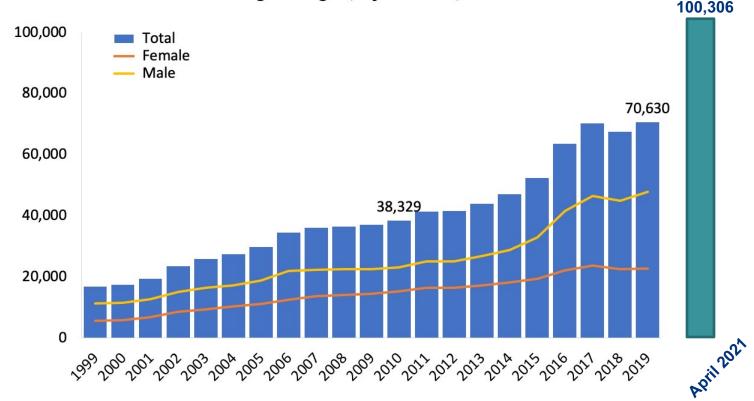
(27 Million)





http://www.casacolumbia.org/sites/default/files/stat-3.0-2.png

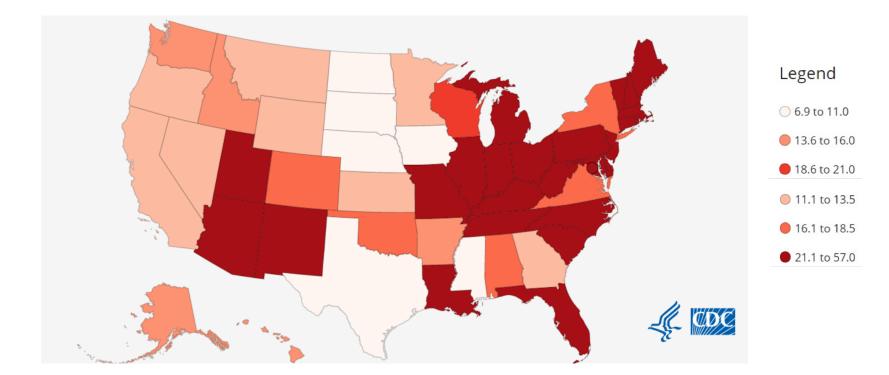
Figure 1. National Drug-Involved Overdose Deaths* Number Among All Ages, by Gender, 1999-2019



*Includes deaths with underlying causes of unintentional drug poisoning (X40–X44), suicide drug poisoning (X60–X64), homicide drug poisoning (X85), or drug poisoning of undetermined intent (Y10–Y14), as coded in the International Classification of Diseases, 10th Revision. Source: Centers for Disease Control and Prevention, National Center for Health Statistics. Multiple Cause of Death 1999-2019 on CDC WONDER Online Database, released 12/2020.

https://www.cdc.gov/nchs/nvss/vsrr/drug-overdose-data.htm

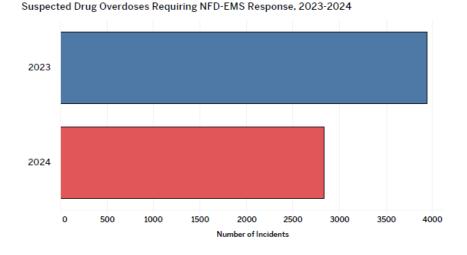




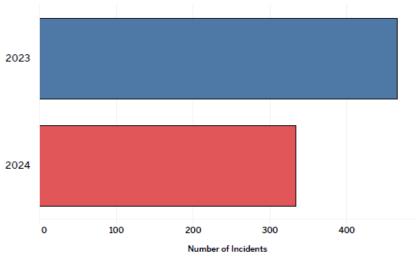
https://www.cdc.gov/drugoverdose/data/statedeaths/drug-overdose-death-2018.html

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Metro Public Health Data



Suspected Fatal Drug Overdoses, 2023-2024



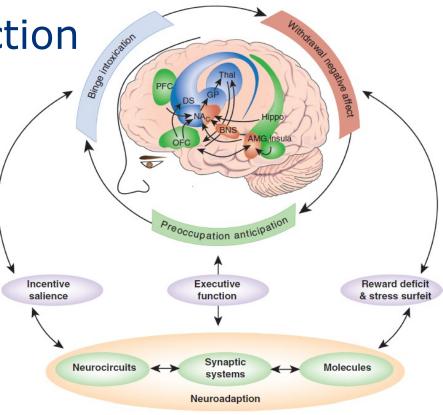
Suspected Drug Overdose-Related ED Visits, 2023-2024

How are leading medical centers changing their approach to SUD?

Neuroscience of Addiction

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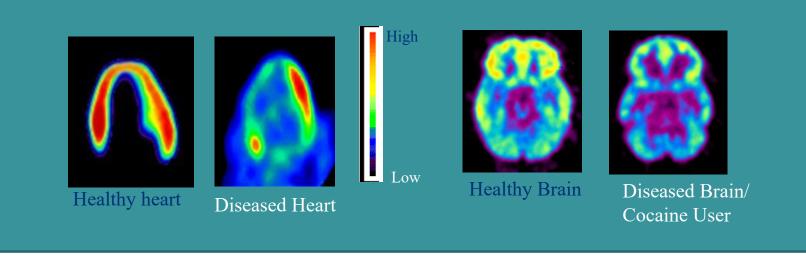
Positive and Negative Reinforcement



Wise, RA and Koob, GF. Neuropsychopharmacology. 39(2): 254-262. 2014.

Destigmatizing Substance Use Disorders

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- **Prevention:** Routine assessment and early intervention when risk factors present
- **Treatment:** Medical therapies, management of co-occurring diseases, lifestyle modification, and social support

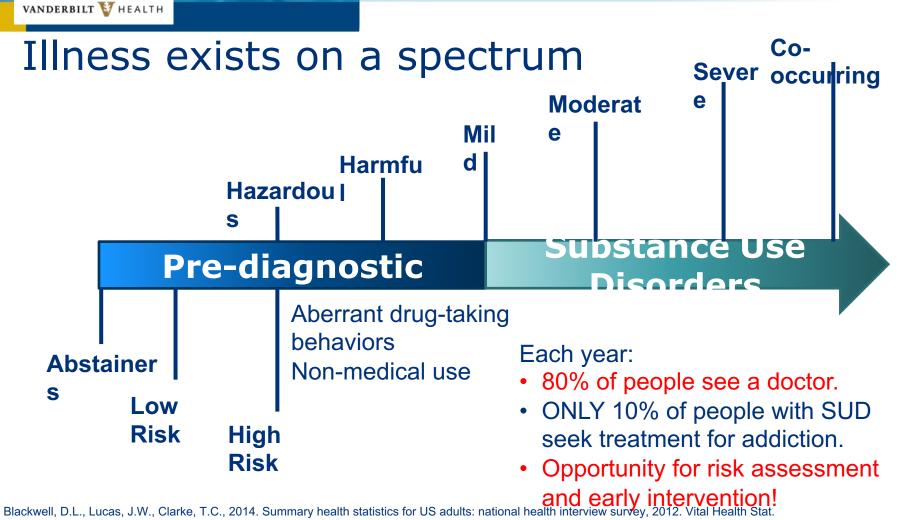
Destigmatizing Substance Use Disorders

Language matters

| Commonly Used Term | Preferred Term | Rationale |
|---|--|--|
| Addict, abuser, etc. | Person with a substance use disorder | Focuses on respect, dignity and primacy of personhood |
| Substance abuse | Substance use disorder Substance misuse | Avoids implication of willful misconduct Shift emphasis to chronic disease model |
| Opioid substitution therapy/replacement therapy | Opioid agonist therapy | Avoids implication of "switching addiction" Pharmacologic classification more in line with other medications (i.e., ACEi, SSRI) |
| Clean | Sober/abstinent | Avoids value-laden, non-clinical terminology |

What are corollaries of the chronic disease model?

- Illness exists on a severity spectrum treatment individualized
- Medication is "appropriate pharmacotherapy" (part of routine management), not unique "medication assisted treatment"
- Motivation is assessed and not assumed
- Detox" is not a helpful construct
- Illness co-occurs with other med-psych illnesses (**Gets its own learning objective!)



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Medication as appropriate pharmacotherapy...



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Mattick et al, 2014. Lima et al, 2002. Jonas et al, 2014. Wu et al, 2006. Marshall et al, 2014.

Major Features of Buprenorphine

Partial agonist at mu receptor – semi-synthetic analog of thebaine

 Comparatively minimal respiratory suppression and no respiratory arrest when used alone

Long acting

Half-life ~ 24-36 Hours

High affinity for mu receptor

 Blocks and displaces other opioids; <u>but can be</u> <u>overcome</u>

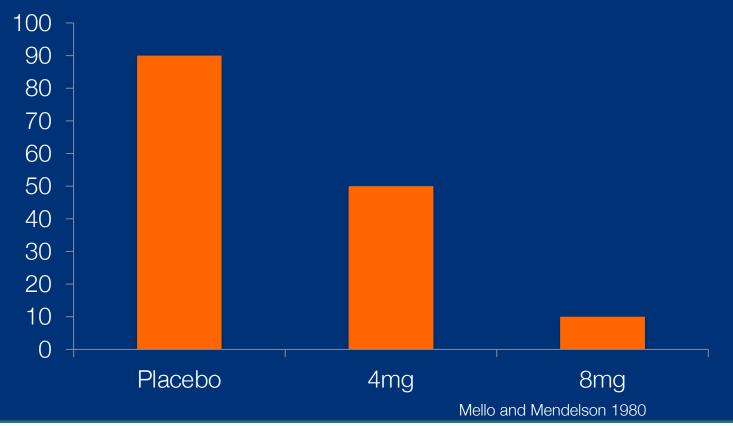
Slow dissociation from mu receptor

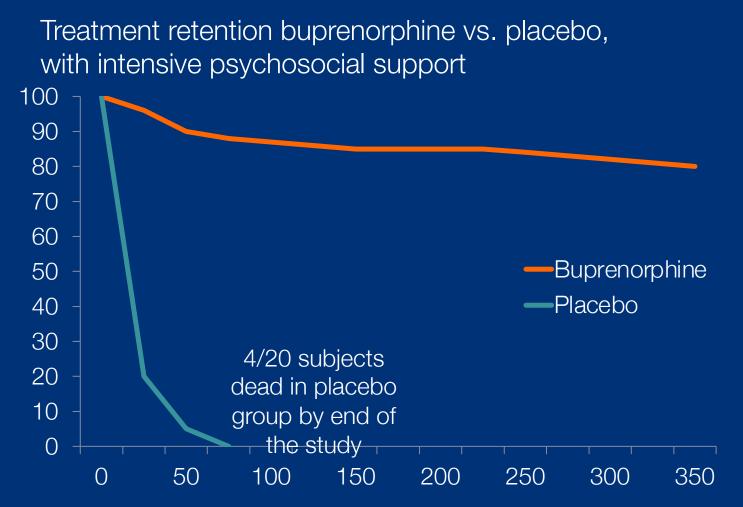
SAMHSA, 2018 Orman & Keating, 2009

Medication for Addiction Treatment (MAT)

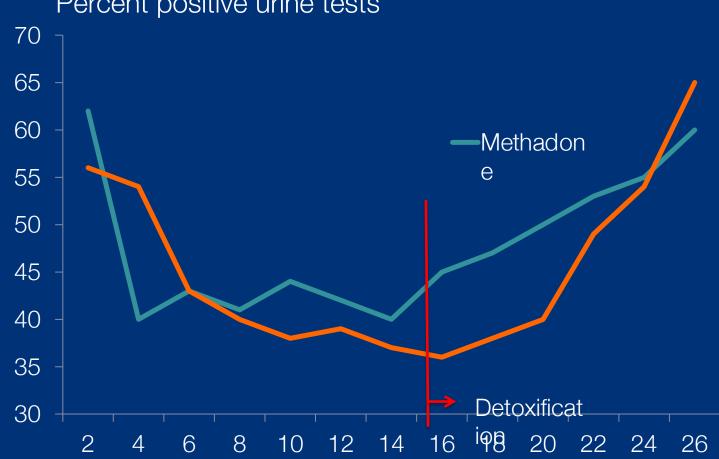
| | Methadone | Buprenorphine (Oral) | Naltrexone (IM) | |
|------------------------|--|--|---|--|
| Mechanism of Action | Full Agonist on Opioid Receptor | Partial Agonist on Opioid Receptor | Antagonist on Opioid Receptor | |
| Dosing | 80mg-100mg (Usual Dose) | 4-32mg | 380mg Depot Injection | |
| Advantages | Provided in a highly structured supervised setting where additional services can be provided on-site and diversion is unlikely Maybe effective for individuals who have not benefited sufficiently from partial agonists or antagonists | Improved safety due to partial agonism Availability in office- based settings | No addictive potential or diversion risk Available in office-based settings Option for individuals seeking to avoid any opioids | |

Percent of doses taken (choice between money or heroin)





Kakko 2003



Percent positive urine tests

Strain 1994

Treatment of opioid use disorder



Cochrane Database of Systematic Reviews



Contents lists available at ScienceDirect

Drug and Alcohol Dependence

journal homepage: www.elsevier.com/locate/drugalcdep

Buprenorphine maintenance versus placebo or methadon maintenance for opioid dependence (Review)

Mattick RP, Breen C, Kimber J, Davoli M

Long-term outcomes from the National Drug Abuse Treatment Clinical Trials Network Prescription Opioid Addiction Treatment Study *

Roger D. Weiss^{a,b,*}, Jennifer Sharpe Potter^{a,b,c}, Margaret L. Griffin^{a,b}, Scott E. Provost^a, Garrett M. Fitzmaurice^{a,b,d}, Katherine A. McDermott^a, Emily N. Srisarajivakul^a, Dorian R. Dodd^a, Jessica A. Dreifuss^{a,b}, R. Kathryn McHugh^{a,b}, Kathleen M. Carroll^e

^a McLean Hospital, 115 Mill Street, Belmont, MA 02478, USA

^b Harvard Medical School, 25 Shattuck Street, Boston, MA 02115, USA

^c University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78229, USA ^d Department of Biostatistics, Harvard School of Public Health, 677 Huntington Street, Boston, MA 02115, USA

^e Department of Psychiatry, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510, USA

ARTICLE INFO

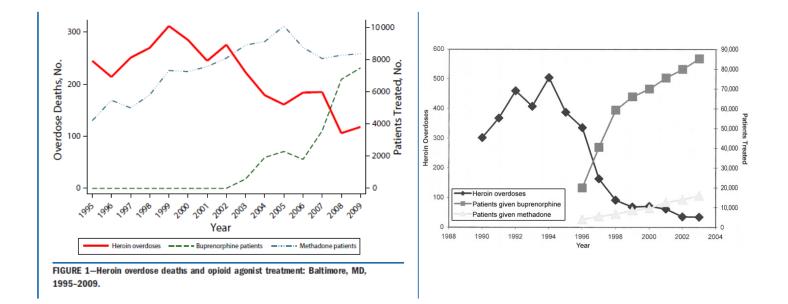
ABSTRACT

Article history: Received 22 October 2014 Background: Despite the growing prevalence of prescription opioid dependence, longi not examined long-term treatment response. The current study examined outcome



Mattick et al, 2014. Weiss et al, 2015. Weiss, Griffin,

Medication Saves Lives



Maryland: 50% reduction in overdo **Seatesth**79% reduction in overdose death with opioid agonist treatment opioid agonist treatment

Table 1

FDA-approved medications for alcohol use disorders

| Medication | Dosing | Mechanism of action | Common side effects | Relative contraindications |
|--------------------------|---------------------------------------|--|--|---|
| Naltrexone ⁴ | 50 to 100 mg/d | Mu receptor blockade interrupts reward pathways in the brain | Gl upset, headache, dizziness, nervousness, fatigue | Opioid use or opioid withdrawal, severe liver inflammation or cirrhosis |
| Acamprosate ^₅ | 666 to 999 mg, 3 times daily | Modulate overactive glutamatergic brain activity that occurs after stopping chronic heavy alcohol use | Diarrhea; nervousness, fatigue, insomnia, depression have been reported with high doses | Severe renal impairment |
| Disulfiram ⁶ | 125 to 500 mg/d | Accumulation of acetaldehyde in the blood produces unpleasant symptoms | Nausea, vomiting, hypertension if taken with alcohol | Patients who recently received metronidazole, paraldehyde, alcohol, or alcohol-containing preparations; severe myocardial disease or coronary occlusion, and psychosis |



CurrentPsychiatry.com

Clinical Point

We consider acamprosate an effective option for patients who do not respond to naltrexone or have a contraindication





Medication

- Control cravings (block negative reinforcement)
- Prevent relapse (block positive reinforcement)

Community supports

- Peer support meetings
- Sober social network
- Family supports

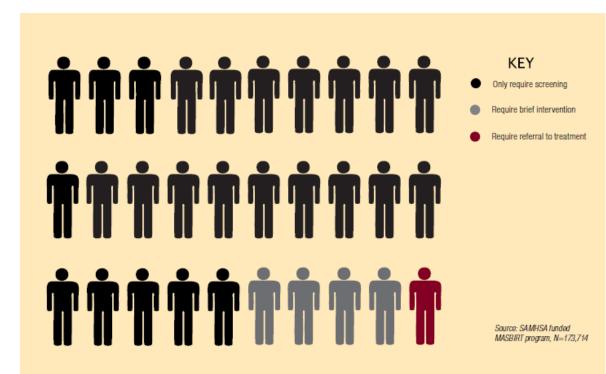
Counseling

- Learn about addiction and recovery
- Relapse prevention skills
- Treatment of psychiatric comorbidities

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Motivation is assessed and not assumed...



SBIRT = Screening, Brief Intervention and Referral to Treatment...

 Brief intervention (BI) = Motivational Interviewing (MI)

Brief Intervention \rightarrow Motivation Interviewing (MI) \rightarrow ASK-TELL-ASK

Key **Skills of Motivatio** nal Intervie wing

O-A-R-S =

- <u>Open-ended</u> questions
- <u>A</u>ffirmations
- <u>R</u>eflections
- <u>S</u>ummaries

Spirit of Motivational Interviewing / SBIRT

P-A-C-E =

- Partnering
- <u>Autonomy (patient</u> autonomy)
- <u>C</u>ompassion
- <u>Evocation</u> (of patients own reasons for change)

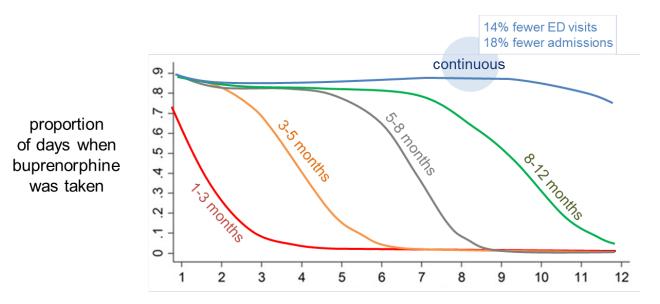
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"Detox" is not a useful construct...

- Chronic disease models demands shift from "one and done – you're fixed"
- "Withdrawal management" is a more helpful term.
- How long should maintenance medications be used?

Optimal Duration of MAT



months since starting treatment

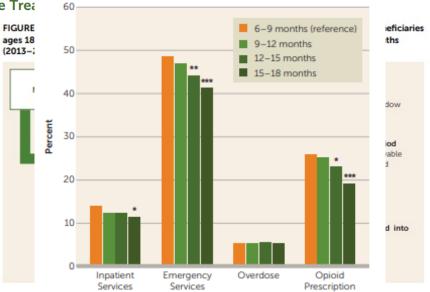
FIGURE 3. Unadjusted 6-month outcomes following discontinuation among Medicaid beneficiaries ages 18–64 retained on buprenorphine for ≥180 days, by treatment duration cohort (2013–2017)^a

Acute Care, Prescrij Following Discontir Buprenorphine Trea 60

Arthur Robin Williams, M.D., M. FIGURE ages 18

Objective: Although bupren of overdose and death in opi discontinue treatment within health outcomes following were compared among pa retained beyond 6 months o mum treatment duration rec Quality Forum.

Methods: A retrospective la performad using the Market5 database (2013–2017), cover nually. The sample included : received buprenorphine co cohorts retained for 6–9 mont and 15–18 months. For out discontinuation period, patient in Mediciaid for 6 months after Primary adverse outcomes in partment visits. all-cause in partment, visits. all-cause in prescriptions, and drug over



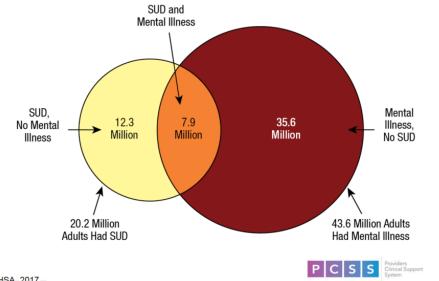
^a All comparisons are with the reference group (the 6- to 9-month cohort). *p<0.05. **p<0.01. ***p<0.001.</p>

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Illness co-occurs with other med-psych illnesses

Co-occurring Psychiatric Disorders



77

Discuss emerging approaches to integration of BH care and SUD into medical settings

OUD and Infectious Diseases: Serious Infections

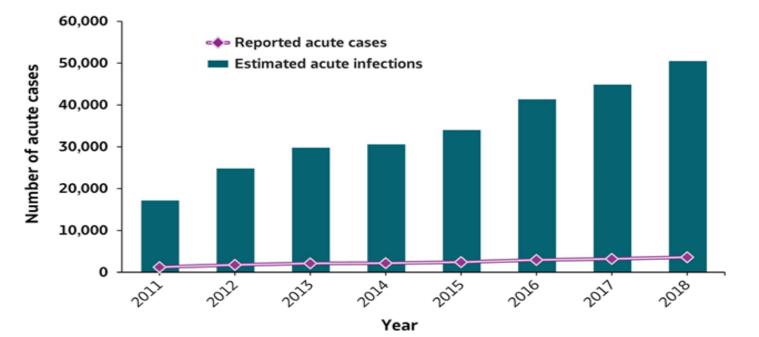
National estimates of hospitalizations related to OUD and associated infections

| | 2002 (N = 36,523,831) | 2012 (N = 36,484,846) |
|--|-----------------------------|-----------------------------|
| | Number | Number |
| Opioid abuse/dependence | 301,707 | 520,275 ^{**} |
| Opioid abuse/dependence with infection [#] | 3,421 | 6,535** |
| Endocarditis | 2,077 | 3,035 [*] |
| Osteomyelitis | 458 | 985** |
| Septic arthritis SOURCE Authors' analysis of data from the National Inpatient | 729 Sample 2002 and 2012 | 1,940** |
| #Infection unadcarbiscessomyelitis, septic arthritis, or epidura | al abscess 411 | 1,085** |
| *p < 0.01 **p < 0.001 | | |

Ronan MV, Herzig SJ. Hospitalizations related to opioid abuse/dependence and associated serious infections increased sharply, 2002-12. Health Aff (Millwood)

OUD and Infectious Diseases: Hepatitis C Virus

Number of reported acute hepatitis C cases and estimated infections in the United States 2011 - 2018



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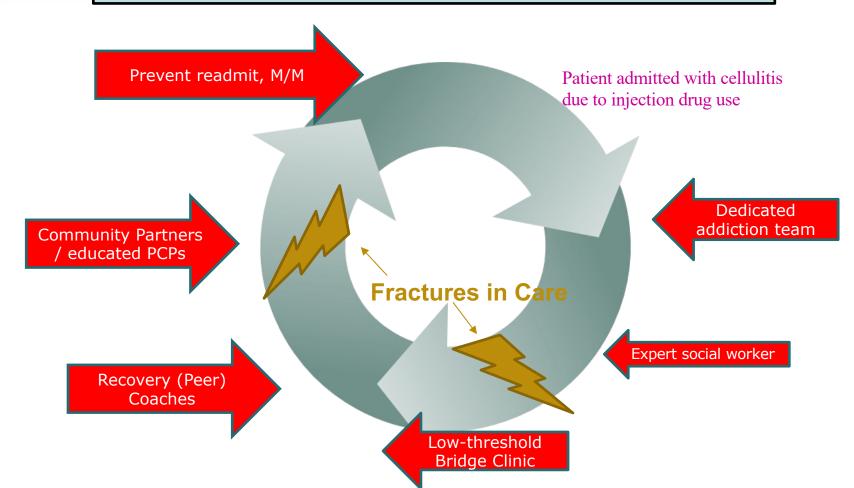
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"Traditional" Model of SUD Care



High risk of fractured care at multiple transition points

Preventing Fractures in Care



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Integrated care Research: ED, Consults and Bridge Original Investigation

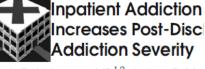
Emergency Department-Initiated Buprenorphine/Naloxone Treatment for Opioid Dependence A Randomized (

Gail D'Onofrio, MD, MS: Patrick G, O'O Susan H. Busch, PhD; Patricia H. Owe



OBJECTIVE To test the efficac referral to treatment (referral community-based treatment intervention, ED-initiated trea care for 10-week follow-up (b

DESIGN, SETTING, AND PARTIC opioid-dependent patients w 2009, through June 25, 2013



Sarah E. Wakeman, MD^{1,2}, Joshua P. Mei Grace E. Herman, BA³, and Nancy A. Ric

¹Division of General Internal Medicine, Massachusetts Genera of Psychiatry, Massachusetts General Hospital, Boston, MA, L

| BACKGROUND: Alcohol and drug use results in su | Patient experiences with a transitional, low-threshold clinic for the |
|--|---|
| tial morbidity, mortality, and cost. Individuals wit | treatment of substance use disorder: A qualitative study of a bridge |
| hol and drug use disorders are overrepresented in | |
| medical settings. Hospital-based interventions o | Rachel L. Snow ^a , Rachel E. Simon ^{b,c} , Helen E. Jack ^{d,e} , Devin Oller ^f , Laura Kehoe ^{b,c} , |

opportunity to engage with a vulnerable population may not otherwise seek treatment.

consultation improves substance use outcomes 1 after discharge.

ticipants who were and were not seen by an ad consult team during hospitalization at an urban a ic hospital.

PARTICIPANTS: Three hundred ninety-nine hosp adults who screened as high risk for having an alc



Journal of Substance Abuse Treatment 107 (2019) 1-7

Contents lists available at ScienceDirect

Journal of Substance Abuse Treatment

journal homepage: www.elsevier.com/locate/jsat



treatment of substance use disorder: A qualitative study of a bridge clinic Rachel L. Snow^a, Rachel E. Simon^{b,c}, Helen E. Jack^{d,e}, Devin Oller^f, Laura Kehoe^{b,c}, Sarah E. Wakeman^{b,c,*}

OBJECTIVE: To determine whether inpatient ad "Department of Psychiatry, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02114, USA ^b Division of General Internal Medicine, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02114, USA ^c Harvard Medical School, 25 Shattuck Street, Boston, MA 02115, USA ^d Department of Medicine, University of Washington, 1959 NE Pacific Street, Seattle, WA 98195, USA DESIGN: Prospective quasi-experimental eval «Institute of Psychiatry, Psychology, and Neuroscience, King's College London, 16 De Crespigny Park, London SE5 8AF, UK comparing 30-day post-discharge outcomes betwe 1 Division of General Internal Medicine, University of Kentucky College of Medicine, 800 Rose Street MN 150, Lexington, KY 40506, USA

ARTICLE INFO

Keywords: Substance use disorders Low threshold

ABSTRACT

Background: A minority of patients with substance use disorder (SUD) receives treatment, indicating the need for innovation in care for individuals with SUD. Transitional and low threshold models of care for SUD are utilized and the second second

What do these services do?

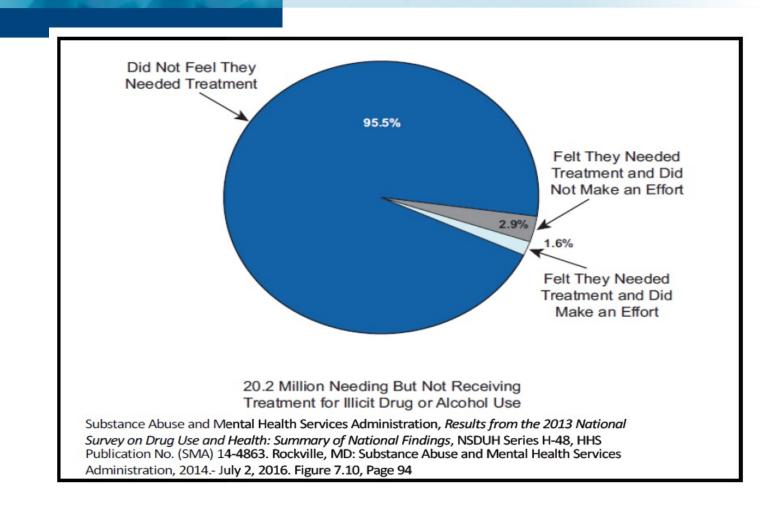
- Risk stratification and guidance on hospital misuse and DC w/ PICC
- ED, Hospital Consults, Bridge Clinics
- Assist distinguishing pain and opioid use disorder
 - Motivational interviewing, brief intervention and referral to treatment

 Management of detox and induction to MAT

 Psychiatric care for co-occurring mental illnesses

Integrated Hospital and Community Services

- ED Buprenorphine
- General hospital addiction consults
- Bridge Clinic
- Ambulatory integrated care



Why outpatient collaborative care for addiction?

- Patients go to their PCP (82% go once per year)
- CC effective in other behavioral health conditions
- There is evidence for various individual components of addiction treatment being used effectively in primary care setting (Bup-Nx, XR-NTX, MI)

Ober, A. J., Watkins, K. E., Hunter, S. B., Lamp, K., Lind, M., & Setodji, C. M. (2015). An organizational readiness intervention and randomized controlled trial to test strategies for implementing substance use disorder treatment into primary care: SUMMIT study protocol. *Implementation Science*, *10*(1), 1.

Original Investigation

Chronic Care Management for Dependence on Alcohol and Other Drugs The AHEAD Randomized Trial

Richard Saitz, MD, MPH; Debbie M. Cheng, ScD; Michael Winter, MPH; Theresa W. Kim, MD; Don Allensworth-Davies, PhD, MSc; Christine A. Lloyd-Travaglini, MPH; Jeffrey H. Samet, MC

IMPORTANCE People with substance dependence have health consequences, care utilization, and frequent comorbidity but often receive poor-quality care. management (CCM) has been proposed as an approach to improve care and o

Research

JAMA Internal Medicine | Original Investigation

Collaborative Care for Opioid and Alcohol Use Disorders in Primary Care The SUMMIT Randomized Clinical Trial

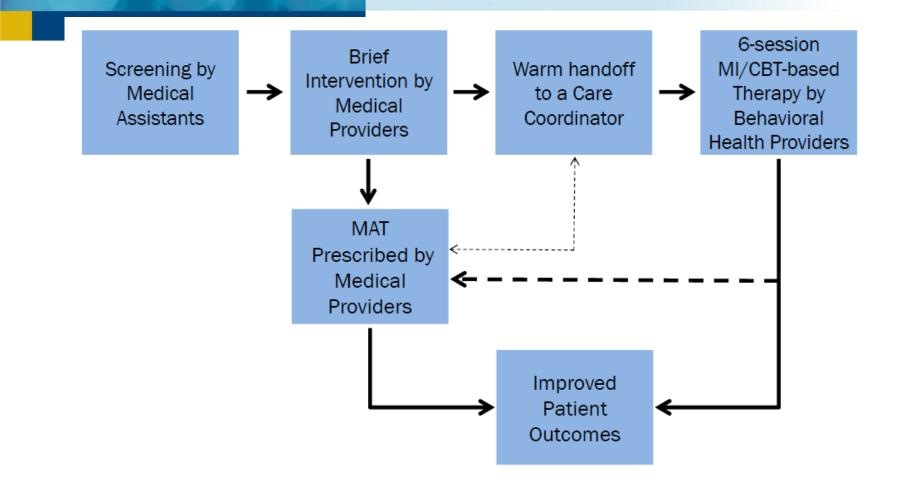
Katherine E. Watkins, MD, MSHS; Allison J. Ober, PhD; Karen Lamp, MD; Mimi Lind, LCSW; Claude Setodji, PhD; Karen Chan Osilla, PhD; Sarah B. Hunter, PhD; Colleen M. McCullough, MPA; Kirsten Becker, MS; Praise O. Iyiewuare, MPH; Allison Diamant, MD; Keith Heinzerling, MD; Harold Alan Pincus, MD

Supplemental content

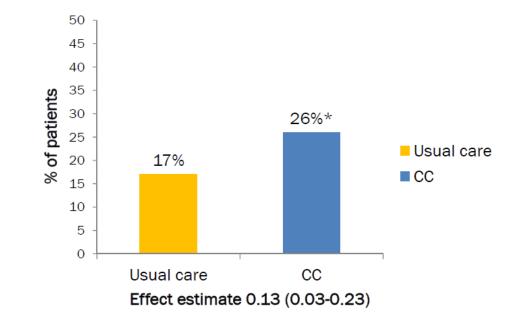
IMPORTANCE Primary care offers an important and underutilized setting to deliver treatment for opioid and/or alcohol use disorders (OAUD). Collaborative care (CC) is effective but has not been tested for OAUD.

OBJECTIVE To determine whether CC for OAUD improves delivery of evidence-based treatments for OAUD and increases self-reported abstinence compared with usual primary care.

Research



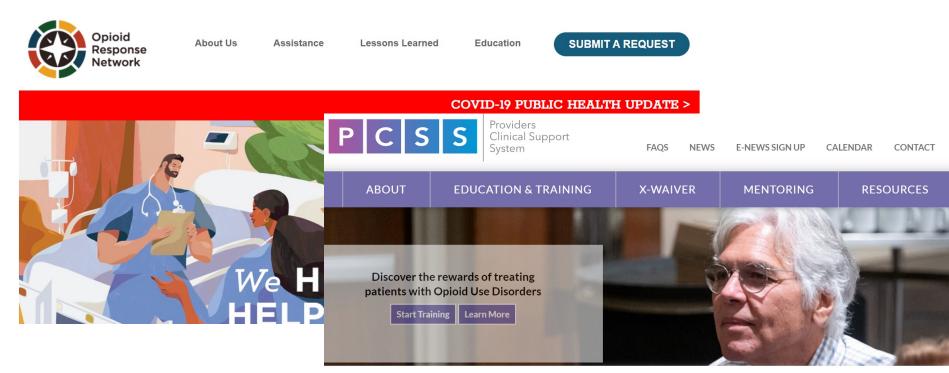
As well as abstinent from alcohol and all drugs at 6 months



What are the basic ingredients?

- Staff familiarity with anti-stigma measures (language slide above to start)
- Basic screening with AUDIT-C and NIDA 1-Question Screen
- X-waivered providers
- Treatment can be delivered in primary care
- A social worker / care coordinator / recovery coach helpful but not required
- Key resources:
 - National: PCSS (pcssnow.org); Opioid Response Network (ORN-opioidresponsenetwork.org)
 - Local: Project ECHO (next slide); local Hub-Spoke networks through TDMHSAS

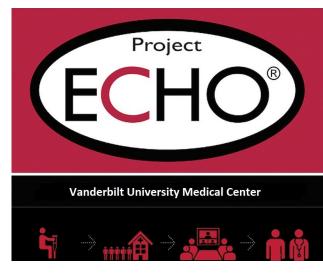
Opioid Response Network and PCSS



Opioidresponsenetwork.org and pcssnow.org

Project ECHO

- In February 2020, TDMHSAS designated VUMC as a Project ECHO Tele-Education Hub. TennCare supported Hub at ETSU pre-dates.
- Project ECHO is a model for technology-enabled education and mentoring meant to expand capacity for community providers to deliver best-practice care for complex health conditions.
- Two-tier model of participation; twice monthly sessions



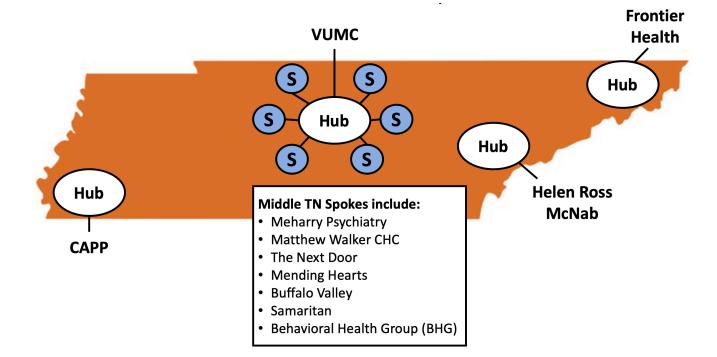
kristopher.a.kast@vumc.org

Describe basic features of a Hub-and-Spoke model of OUD care

Hub and Spoke - Background

- Hub an anchor site that provides comprehensive and specialized care for a condition
 - Application to OUD extend the reach of MOUD especially buprenorphine
 - Originated for OUD in Vermont used opioid treatment programs (methadone clinics)
 - Other states have defined more broadly
- Spoke satellite sites offering more limited services
 - Could be any site offering a form of MOUD
 - Could also include broad psychosocial services
- Hub-and-Spoke Network
 - A way to better expand access and integrate care continuum
 - ECHO Tele-education platform can support education and alignment

Regional Hub-and-Spoke Network



SORII: Added Spokes include Cedar Recovery and Meharry Family

A case...

 Jeff is a 42-year-old married man with a history of alcohol and opioid use disorder. You see him in your primary clinic following a recent medical admission. He tells you the psychiatric provider in the hospital visited him and diagnosed him as bipolar depressive, starting him on fluoxetine 20mg and lorazepam 2mg at night. He is also taking Suboxone 8mg BID and acamprosate 666mg TID.

Questions to consider:

- How often do these three conditions (OUD, AUD, bipolar) cooccur?
- Would you tend to accept the diagnosis?
- What about the treatment plan?

A case... (continued)

Questions to consider:

- How often do these three conditions (OUD, AUD, bipolar) co-occur?
- Would you tend to accept the diagnosis?
- What about the treatment plan?

Poll Everywhere

- Please text PCTEAM in the message line to phone number 22333 to join session
- Confirmation text will appear
- Respond with A,B,C,D or E when prompted by question or text answer if question is open ended

Your audience texts **PCTEAM** once to **22333** to join your session.

Then they respond with **A**, **B**, **C**, **or D** when the activity is active.

| ••••• PollEv 🗢 | イ 考 72% ■ | |
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In a patient with OUD, the prevalence of serious mental illness and alcohol use disorder, respectively, are:

@ 0

41% and 22%

26% and 26%

16% and 21%

9% and 14%

Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

In a patient with OUD, the prevalence of serious mental illness and alcohol use disorder, respectively, are: 41% and 22% 0% 26% and 26% 0% 16% and 21% 0% 9% and 14% 0%

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In a patient with OUD, the prevalence of serious mental illness and alcohol use disorder, respectively, are: 41% and 22% 0% 26% and 26% 0% 16% and 21% 0% 9% and 14% 0%

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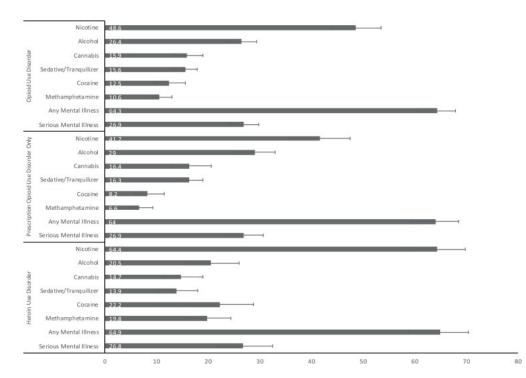
Learning objectives

At the end of this session, participant will be able to:

- Discuss the incidence of co-occurring psychiatric and substance use disorders for common SUD
- Describe an approach for diagnosing co-occurring non-substance psychiatric conditions in the presence of an SUD
- Discuss treatment considerations for common cooccurring non-substance psychiatric conditions in the presence of an SUD

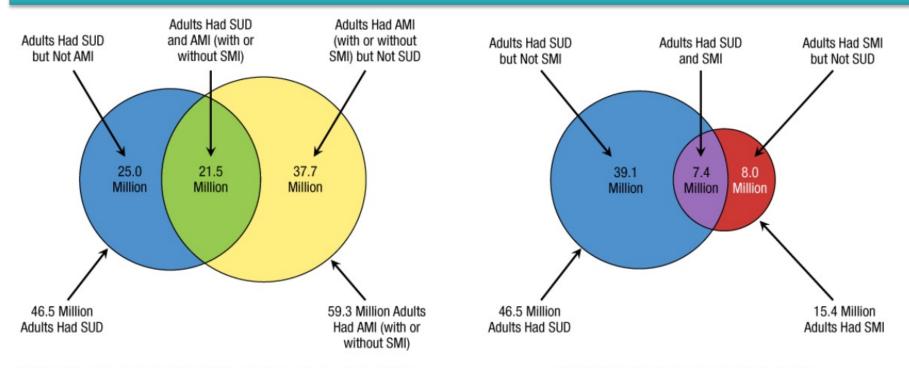
What disorders commonly co-occur with OUD?

- Alcohol 26.4%
- Methamphetamine 10.6%
- Cocaine 12.5%
- Sedative 15.6%
- Any mental illness: 64.3%
- Serious mental illness: 26.9%



Jones, C. M., & McCance-Katz, E. F. (2019). Co-occurring substance use and mental disorders among adults with opioid use disorder. *Drug and alcohol dependence*, *197*, 78-82.

Past Year Substance Use Disorder (SUD), Any Mental Illness (AMI) and Severe Mental Illness (SMI) among Adults Aged 18 or Older: 2022



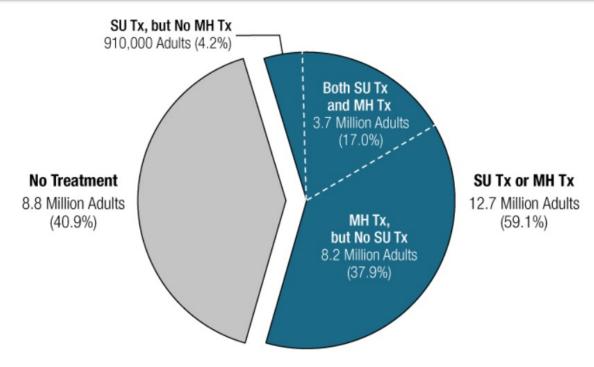
84.2 Million Adults Had Either SUD or AMI (with or without SMI)

54.4 Million Adults Had Either SUD or SMI

D

Abuse, S. (2022). Mental Health Services Administration.(2021). Key substance use and mental health indicators in the United States: Results from the national survey on drug use and health

Receipt of Substance Use Treatment or Mental Health Treatment in the Past Year: Among Adults Aged 18 or Older with Past Year Substance Use Disorder and Any Mental Illness; 2022



21.5 Million Adults with a Substance Use Disorder and Any Mental Illness

D

Abuse, S. (2022). Mental Health Services Administration.(2021). Key substance use and mental health indicators in the United States: Results from the national survey on drug use and health

comorbidity:

rule rather than exception.

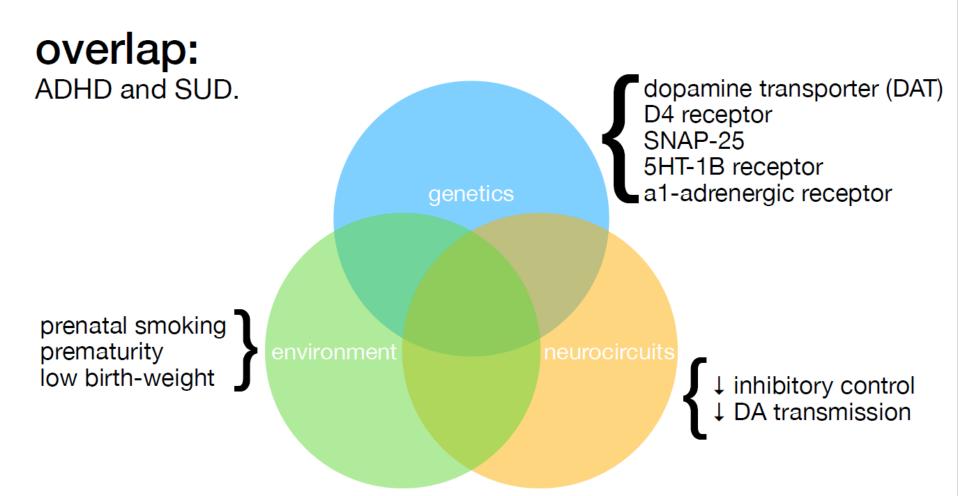
| diagnosis | relevant rates | |
|-------------|-------------------------------|--|
| MDD | 15-50% across SUD samples | |
| bipolar | up to 40% have SUD | |
| anxiety | 20-80% of SUD; 20% in PCP | |
| PTSD | 30-60% of SUD; 20-40% of PTSD | |
| psychosis | 70-90% NUD; 20-30% other SUD | |
| ADHD | 25% in SUD | |
| personality | 65% BPD in SUD | |
| eating | up to 50% have SUD | |

linked disorders: childhood ADHD → SUD.

FIGURE 4 Meta-analysis of attention-deficit/hyperactivity disorder (ADHD) and psychoactive substance use disorder. Note: Results from a meta-analysis comparing ADHD versus control subjects for psychoactive substance use disorder. CI = confidence interval.

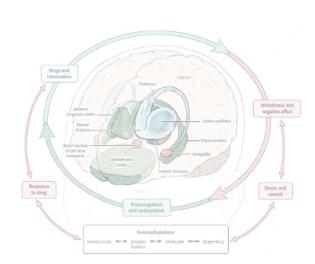
| Study or Subgroup | log[Odds Ratio] | SE | Weight | Odds Ratio IV, Random, 95% Cl | Odds Ratio IV, Random. 95% Cl |
|-----------------------------------|----------------------------------|--------|---------------|----------------------------------|-----------------------------------|
| Biederman 2008 ¹⁹ | 0.1864 | 0.2759 | 39.0% | 1.20 [0.70, 2.07] | |
| Fischer 2002 ¹⁴ | 0.5166 | 0.3019 | 32.9% | 1.68 [0.93, 3.03] | +=- |
| Gittelman 1985 ³ | 1.1367 | 0.4675 | 14.2% | 3.12 [1.25, 7.79] | |
| Mannuzza 1991 ⁶ | 0.4261 | 0.4725 | 13.9% | 1.53 [0.61, 3.87] | |
| Total (95% Cl) | | | 100.0% | 1.59 [1.12, 2.25] | • |
| Heterogeneity: Tau ² = | 0.01; Chi ² = 3.12, d | f=3(P= | = 0.37); 2 = | = 4% | |
| Test for overall effect: | Z = 2.60 (P = 0.009 |) | | 0 | 0.01 0.1 1 10 100 Control ADHD |

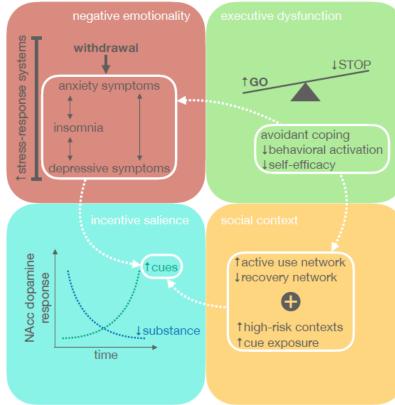
OR 1.12-2.25 across prospective cohort studies



neurobiology:

mutually-reinforcing mechanisms.



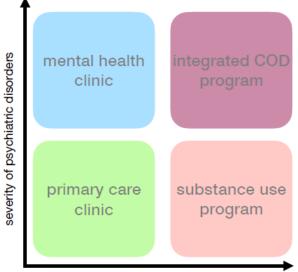


Gopaldas, Kast. Springer, 2021.

comorbidity:

worsened outcomes.

- higher relapse rates
- higher acute care use
- higher SDOH burden
 - challenged by <u>non-integrated care</u>



severity of substance use disorders

Learning objectives

At the end of this session, participant will be able to:

- Discuss the incidence of co-occurring psychiatric and substance use disorders for alcohol, opioid and stimulant use disorder
- Describe an approach for diagnosing co-occurring nonsubstance psychiatric conditions in the presence of an SUD
- Discuss treatment considerations for common cooccurring non-substance psychiatric conditions in the presence of an SUD

Case continued

 Jeff is a 42-year-old married man with a history of alcohol and opioid use disorder. You see him in your primary clinic following a recent medical admission. He tells you the psychiatric provider in the hospital visited him and diagnosed him as bipolar depressive, starting him on fluoxetine 20mg and lorazepam 2mg at night. He is also taking Suboxone 8mg BID and acamprosate 666mg TID.

How would you approach clarification of Jeff's diagnosis from the recent admission?

What is your approach to Jeff's mood diagnosis?

Since he has only been sober for 9 months in his 30s following a residential admission, we should defer his diagnosis

Regardless of the underlying diagnosis, we need a period of sobriety to determine if he currently meets mood disorder criteria

It is unwise to question the diagnosis made in a psychiatric hospital, since psychiatrists probably work there

Jeff's symptoms prior to onset of SUD and during sober periods can usually help us make a diagnostic decision

Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

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Start the presentation to see live content. For screen share software, share the entire screen. Get help at **pollev.com/app**

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Primary or Secondary?

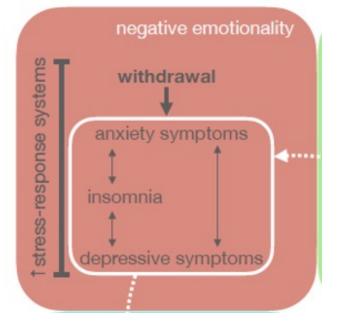
Substance-induced disorders

- <u>Depressive</u> and <u>anxiety</u> symptoms most common
- In AUD, 40% on presentation
 - 5-10% persist at 4 weeks
 - 5x more likely to persist if prior MDD or low drinking volume
 - <u>Risk of suicidal behavior</u> is not different for SIDD and MDD

| DSM 5 substance-induced mental disorder criteria | | |
|--|--|--|
| Evidence of both: | onset within 1 month of use or intoxication/withdrav al | |
| | substance is capable of causing the symptoms | |
| and, symptoms | independent disorder present prior to use | |
| not better explained by: | persistent symptoms for prolonged period (>1 month) | |
| and: | not delirium + causing impairment | |

Primary or Secondary?

Substance-induced disorders



Questions for the interview:

Were symptoms present during longest period of recovery?

Age of symptom onset relative to substance use?

Developmental history and associated risk factors?

Family history of the psychiatric disorder?

How to screen quickly for the most common psychiatric conditions

| Mood | "Anxiety" | Thought |
|------------------------------|---------------------------------|-----------------------------|
| Major Depressive Disorder | Generalized anxiety disorder | Schizophrenia |
| Bipolar Disorder | Panic Disorder | Schizoaffective Disorder |
| | OCD | |
| | PTSD | |
| | | |

How to screen quickly for specific <u>mood</u> disorders

During X period of sobriety, or before onset of use...

- MDD 2 weeks of feeling down or depressed or not being able to enjoy anything most of the day every day?
 - During that time did you experience problems with sleep, appetite, energy, guilt or hopelessness?
- BPAD Did you ever have "the opposite" of depression where you didn't need much sleep for several days, but you weren't tired?
 - During that time, did you have too much energy like people thought you were "high" but you didn't use drugs, talking fast, racing thoughts, feeling more irritable, doing lots of things?

How to screen quickly for specific <u>anxiety</u> disorders

During X period of sobriety, or before onset of use...

- GAD Are you a worrier?
 - Do you find you're worrying more than half the time?
 - Does it cause problems like poor sleep, muscle tension, restlessness?
- Panic Disorder Do you ever get physical symptoms from anxiety like can't breathe, heart racing, feel like you're going to die?
 - How often? Does it cause you problems?
- OCD do you have to do unusual things to relieve anxiety like wash hands, check locks, count numbers?
 - How much time is spent? Does it cause you problems?

Consider use of measures like PHQ9 and GAD7

PATIENT HEALTH QUESTIONNAIRE (PHQ-9)

| ID #: | | | DATE: | | |
|---|------------|-----------------|-------------------------------|---------------------|--|
| Over the last 2 weeks, how often have you been | | | | | |
| bothered by any of the following problems? (use "✓" to indicate your answer) | Not at all | Several days | More than half the days | Nearly every day | |
| 1. Little interest or pleasure in doing things | 0 | 1 | 2 | 3 | |
| 2. Feeling down, depressed, or hopeless | 0 | 1 | 2 | 3 | |
| 3. Trouble falling or staying asleep, or sleeping too much | 0 | 1 | 2 | 3 | |
| 4. Feeling tired or having little energy | 0 | 1 | 2 | 3 | |
| 5. Poor appetite or overeating | 0 | 1 | 2 | 3 | |
| 6. Feeling bad about yourself—or that you are a failure or have let yourself or your family down | 0 | 1 | 2 | 3 | |
| 7. Trouble concentrating on things, such as reading the newspaper or watching television | 0 | 1 | 2 | 3 | |
| 8. Moving or speaking so slowly that other people could | | | | | |

GAD-7 Anxiety

| Over the <u>last two weeks</u> , how often have you been bothered by the following problems? | Not at all | Several days | More than half the days | Nearly every day |
|--|---------------|-----------------|-------------------------------|------------------------|
| 1. Feeling nervous, anxious, or on edge | 0 | 1 | 2 | 3 |
| 2. Not being able to stop or control worrying | 0 | 1 | 2 | 3 |
| 3. Worrying too much about different things | 0 | 1 | 2 | 3 |
| 4. Trouble relaxing | 0 | 1 | 2 | 3 |
| 5. Being so restless that it is hard to sit still | 0 | 1 | 2 | 3 |
| 6. Becoming easily annoyed or irritable | 0 | 1 | 2 | 3 |
| Feeling afraid, as if something awful might happen | 0 | 1 | 2 | 3 |

Column totals + + + +

Total score

| If you checked any problems, how difficult have they made it for you to do your work, take care of things at home, or get along with other people? | | | | |
|--|--------------------|----------------|---------------------|--|
| Not difficult at all | Somewhat difficult | Very difficult | Extremely difficult | |
| | | | | |

How to screen quickly for specific thought disorders?

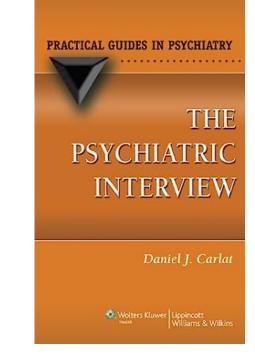
During X period of sobriety, or before onset of use...

- Schizophrenia spectrum: Have you had unusual experiences such as:
 - Hearing voices other people weren't hearing?
 - Seeing visions other people weren't seeing?
 - Feeling you were being watched, followed or monitored?
 - Had beliefs that other people thought were unusual?

How to diagnose psychiatric conditions: Practical Tools







Carlat, D. J. (2005). Practical guides in psychiatry: The psychiatric interview.

Thank you! Questions?

References

- Abuse, S. (2022). Mental Health Services Administration.(2021). Key substance use and mental health indicators in the United States: Results from the 2020 national survey on drug use and health (HHS Publication No. PEP21-07-01-003, NSDUH Series H-56). Rockville, MD: Center for Behavioral Health Statistics and Quality. Substance Abuse and Mental Health Services Administration. Retrieved from https://www. samhsa. gov/data.
- American Psychiatric Association, D. S. M. T. F., & American Psychiatric Association. (2013). *Diagnostic and statistical manual of mental disorders: DSM-5* (Vol. 5, No. 5). Washington, DC: American psychiatric association.
- Carlat, D. J. (2005). Practical guides in psychiatry: The psychiatric interview.
- Charach, A., Yeung, E., Climans, T., & Lillie, E. (2011). Childhood attention-deficit/hyperactivity disorder and future substance use disorders: comparative meta-analyses. *Journal of the American Academy of Child & Adolescent Psychiatry*, 50(1), 9-21.
- Hwang, B. J., Unruh, B. T., & Kast, K. A. (2023). CL Case Conference: Applying Good Psychiatric Management for Borderline Personality Disorder in Hospitalized Patients With Co-occurring Substance Use Disorders. *Journal of the Academy of Consultation-Liaison Psychiatry*, 64(1), 83-91.
- Jones CM, McCance-Katz EF. Co-occurring substance use and mental disorders among adults with opioid use disorder. Drug Alcohol Depend. 2019;197:78–82.
- Kollins, S. H. (2008). ADHD, substance use disorders, and psychostimulant treatment: current literature and treatment guidelines. *Journal of attention disorders*, 12(2), 115-125.
- Lee, N. K., Cameron, J., & Jenner, L. (2015). A systematic review of interventions for co-occurring substance use and borderline personality disorders. Drug and alcohol review, 34(6), 663-672.
- Madan, A., Oldham, J. M., Gonzalez, S., & Fowler, J. C. (2015). Reducing adverse polypharmacy in patients with borderline personality disorder. Prim Care Companion CNS Disord, 17.
- Mariani, J. J., & Levin, F. R. (2007). Treatment strategies for co-occurring ADHD and substance use disorders. *The American Journal on Addictions*, 16, 45-56.

References

- Mustaquim, D., Jones, C. M., & Compton, W. M. (2021). Trends and correlates of cocaine use among adults in the United States, 2006–2019. Addictive Behaviors, 120, 106950.
- Ries, R. K., Fiellin, D. A., Miller, S. C., & Saitz, R. (2014). The ASAM principles of addiction medicine. Lippincott Williams & Wilkins.
- Soler, J., Casellas-Pujol, E., Fernández-Felipe, I., Martín-Blanco, A., Almenta, D., & Pascual, J. C. (2022). "Skills for pills": The dialectical-behavioural therapy skills training reduces polypharmacy in borderline personality disorder. Acta Psychiatrica Scandinavica, 145(4), 332-342.
- Spencer, T. J., Adler, L. A., Qiao, M., Saylor, K. E., Brown, T. E., Holdnack, J. A., ... & Kelsey, D. K. (2010). Validation of the adult ADHD investigator symptom rating scale (AISRS). *Journal of Attention Disorders*, 14(1), 57-68.
- Torrens, M., Rossi, P. C., Martinez-Riera, R., Martinez-Sanvisens, D., & Bulbena, A. (2012). Psychiatric co-morbidity and substance use disorders: treatment in parallel systems or in one integrated system?. Substance Use & Misuse, 47(8-9), 1005-1014.
- Tori, M. E., Larochelle, M. R., & Naimi, T. S. (2020). Alcohol or benzodiazepine co-involvement with opioid overdose deaths in the United States, 1999-2017. JAMA network open, 3(4), e202361-e202361
- Viktorin, A., Lichtenstein, P., Thase, M. E., Larsson, H., Lundholm, C., Magnusson, P. K., & Landén, M. (2014). The risk of switch to mania in patients with bipolar disorder during treatment with an antidepressant alone and in combination with a mood stabilizer. *American Journal of Psychiatry*, 171(10), 1067-1073.
- Weiss, R. D., Griffin, M. L., Kolodziej, M. E., Greenfield, S. F., Najavits, L. M., Daley, D. C., ... & Hennen, J. A. (2007). A randomized trial of integrated group therapy versus group drug counseling for patients with bipolar disorder and substance dependence. *American Journal of Psychiatry*, 164(1), 100-107.
- Wilens, T. E., Adler, L. A., Weiss, M. D., Michelson, D., Ramsey, J. L., Moore, R. J., ... & Atomoxetine ADHD/SUD Study Group. (2008). Atomoxetine treatment of adults with ADHD and comorbid alcohol use disorders. *Drug and alcohol dependence*, 96(1-2), 145-154.

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