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The Heller School FOR SOCIAL POLICY AND MANAGEMENT

Institute for Behavioral Health
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Knowledge Advancing Social Justice

Medications to Treat Addiction

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Improving Quality and Integration of Substance Use Disorder Treatment in the Era of Accountable Care
MBHP/MassHealth Provider Conference -- November 7, 2017

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- Brandeis-Harvard NIDA Center to Improve System Performance of Substance Use Disorder Treatment
- No conflicts of interest

Today's presentation

- Setting the stage
- Pharmacotherapy
- Barriers
- Effectiveness
- Opportunities for improvement

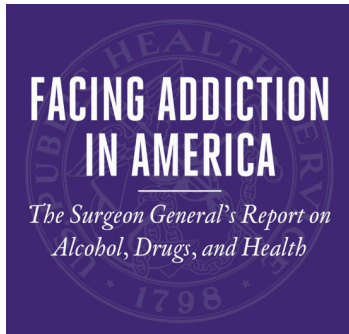


SETTING THE STAGE



USA TODAY

Trump orders public health emergency for opioids, a partial measure to fight drug epidemic



Why have substance misuse and substance use disorders become a public health crisis in the United States?



1 in 7 people

will develop a substance use disorder at some point in their lives.

Source: Kessler et al., 2005.

Substance misuse has serious consequences including:



- ▶ Heart and liver diseases
- ▶ Various forms of cancer
- ▶ HIV/AIDS
- ▶ Problems related to drinking or using drugs during pregnancy



It's not just opioid addiction. Alcoholism may be on the rise too.

Especially among women, the poor, and minorities.

HEALTH **The New York Times**

Alcohol Abuse Is Rising Among Older Adults



OVER 80% OF PATIENTS WHO HAD AN OPIOID USE DISORDER DID NOT GET TREATMENT IN A SPECIALTY CARE FACILITY IN 2015.

Though effective, treatment medications are **extremely** underutilized.



(twitter 10/30/2017)

FACING ADDICTION IN AMERICA

*The Surgeon General's Report on
Alcohol, Drugs, and Health*

Every  spent on...

Implementation of
evidence-based
interventions can have a
benefit of \$58



substance use
disorder treatment
Saves \$4 in
health care costs.



Saves \$7
in criminal justice costs.



Source: Ettner et al., 2006.

Identify

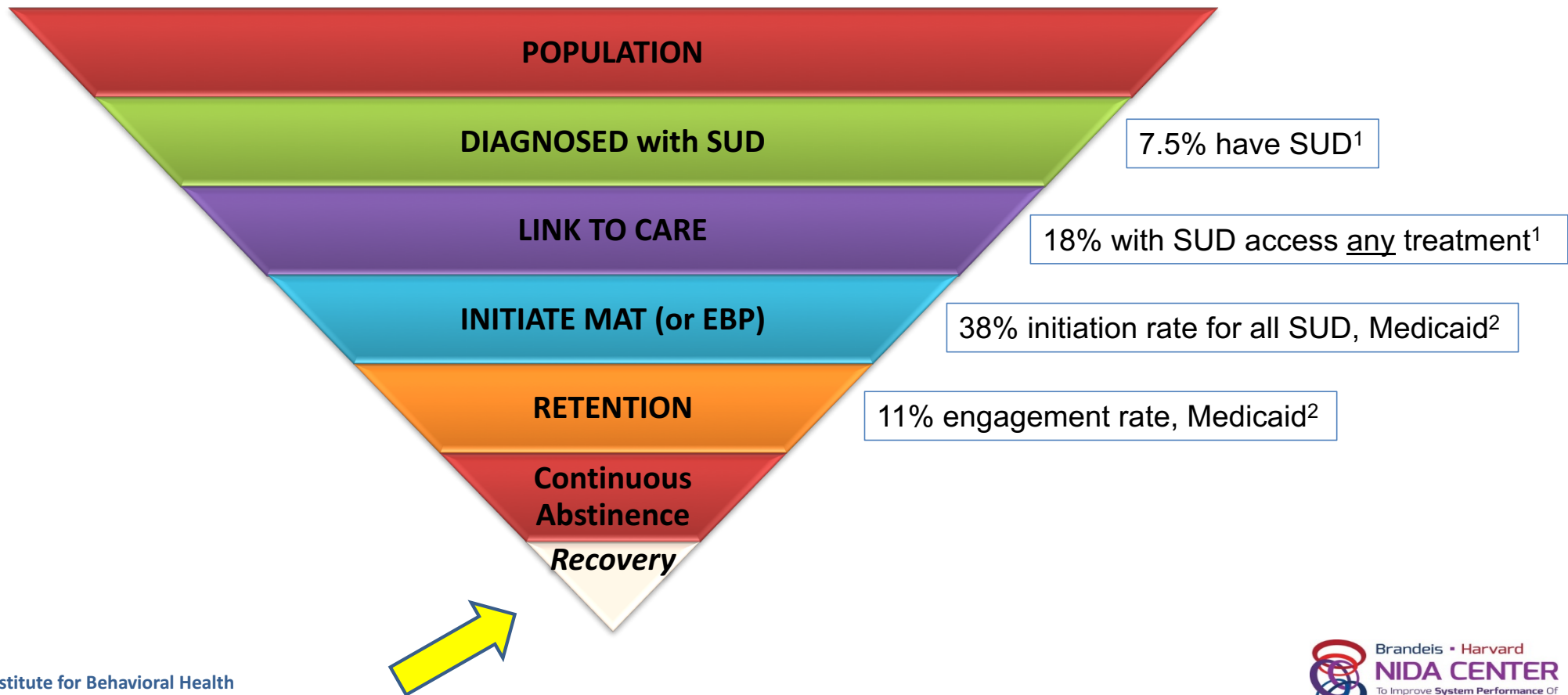
Abstinence

Treat

Recovery

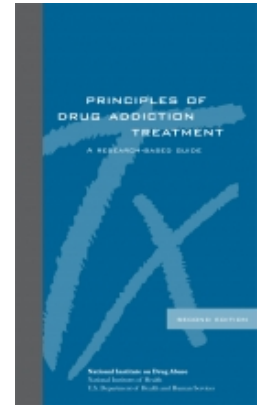


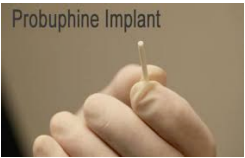
Cascade of care



Principles of effective treatment

1. Addiction is a complex but treatable disease that affects brain function and behavior
2. No single treatment is appropriate for everyone
3. Treatment needs to be readily available
4. Effective treatment attends to multiple needs, not just SUD
5. Remaining in treatment for adequate time is critical
6. Behavioral therapies are most commonly used
7. **Medications are an important element, especially combined with behavioral therapies**





PHARMACOTHERAPY (MEDICATION-ASSISTED TREATMENT)

Pharmacotherapy/MAT

- Medications to:
 - stop or reduce substance use
 - reduce craving
- FDA-approved medications available for alcohol, opioids
 - naloxone \neq treatment
- Psychosocial treatment recommended in conjunction
 - yet findings are mixed, especially for opioid use disorders
- Response might vary across patient sub-groups
- Endorsed by NQF, NIDA, ASAM, meta-analyses, many research studies
- Treatment guidelines exist (see resources at end)



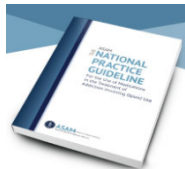
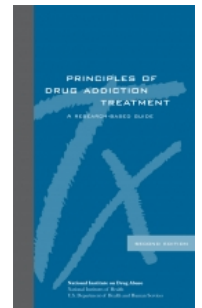
Medications Development: Treatment for alcohol use disorder includes behavioral treatments...as well as pharmaceutical treatments



1st Consensus Standard for SUD Treatment: Pharmacotherapy (for withdrawal and for dependence)



NIDA Principles of Effective Treatment: Medications are an important element, especially combined with behavioral therapies



ASAM Public Policy Statement, OUD National Practice Guidelines: Pharmacological therapy can be a part of effective professional treatment for OUD...best accompanied by and provided in conjunction with evidence-based psychosocial treatments and recovery support interventions

Changing environment

- Pharmacotherapy for addiction has evolved significantly
 - types of medications, modes of administration
- Improved acceptability and access
 - specialty settings that traditionally used an abstinence-based approach are increasingly using medications to treat addictions
 - buprenorphine and other medications available within office-based settings
 - less reliance on opioid treatment programs (OTPs)
 - medications beyond methadone available in OTPs
 - role for primary care, psychiatry, community health centers, etc.



UNDER-UTILIZED

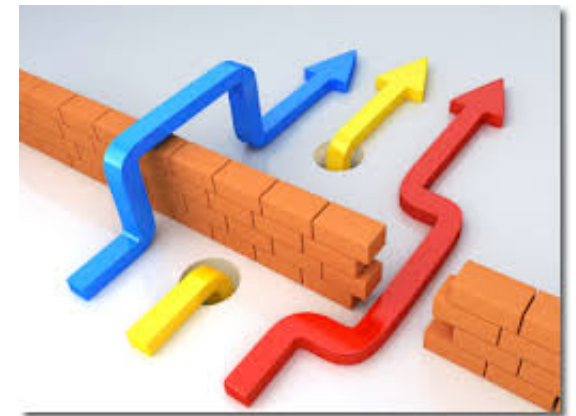
Few who would benefit receive prescriptions

- Small proportion are prescribed addiction meds
 - e.g. <2.5% of alcohol-dependent patients in the VA received a prescription for oral naltrexone or other medication for alcohol dependence
- <33% of clinically appropriate patients received prescriptions in specialty treatment programs that prescribe any addiction meds
- Prescribing for addiction is much less common than for mental disorders
 - e.g. 70% of those with psychiatric diagnoses received psychiatric prescriptions in the same specialty programs

Limited prescribing by those who could do so

- <50% of specialty treatment programs prescribed any addiction meds¹
 - Buprenorphine prescribed in 58% OTPs and 21% non-OTPs²
 - Injectable naltrexone prescribed in 23% OTPs and 16% non-OTPs²
- Most buprenorphine prescribers practice well under their current patient limit and have numerous months with no patient episodes³
 - Buprenorphine prescribers treated 13 patients per month, on average, with a median of only 4 patients per month
 - Even prescribers with the 100+ patient waiver treated only about 33 patients per month, on average, median of 23

BARRIERS...



Barriers to adopting any new practice

- Complex clients
- Training
- Implementation
- Fidelity
- Clinical inertia
- Lack of medical staff
- Research to practice delay
- Practice to research gap
- Reimbursement

Patient barriers

- Ambivalence about getting treatment
- Knowledge
 - effectiveness, where to get help
- Stigma
 - patient, family, providers
 - OTP daily clinic attendance and requirements reinforce “person with SUD”
- Cost
 - prescribers who don’t accept Medicaid or other insurance
- Availability
 - waived prescribers, prescribers accepting new patients, geographic access

Prescriber barriers

- Knowledge and training, confidence
 - effectiveness, appropriateness, induction, psychosocial supports
- Structural
 - buprenorphine waiver and prescribing limits, lack of medical staff, injection or implant requirements and capability, storage of medications, drug screens, prescribing and psychosocial support partners
- Practice constraints
 - time, multiple priorities during office visit, reimbursement issues
 - anti-medication bias (philosophical/cultural)
 - worry that will become inundated with medication requests
- Diversion concerns
- Stigma
 - among providers, may also limit knowledge, screening, referral to treatment
- Not interested
 - addiction overall, treating addiction patients, increasing addiction patient load



EFFECTIVENESS

OVERALL OUTCOMES OF MEDICATION TREATMENTS



PATIENT ENGAGEMENT & RETENTION



REDUCTION OF OPIOID USE



REDUCTION OF NON-OPIOID DRUG USE



REDUCTION OF OPIOID-RELATED HEALTH AND SOCIAL PROBLEMS*

*) HIV and other infections, Crime, Unemployment

Alcohol Use Disorders

- Disulfiram [Antabuse]
- Naltrexone – oral¹ [Revia]
 - greatly reduced risk of heavy drinking compared to placebo
 - slight decrease in drinking days, heavy drinking days, amount of alcohol consumed
 - reduces craving, better than acamprosate
 - effect on abstinence best if abstinent before starting naltrexone
- Naltrexone – extended release injectable² [Vivitrol]
 - comparable to oral naltrexone but not better
 - improved adherence (long-acting injection)
- Acamprosate³ [Campral]
 - greatly reduced risk of any drinking compared to placebo
 - effect on abstinence is best if detoxed before starting acamprosate
 - no effect on heavy drinking

Opioid Use Disorders

- Methadone¹
 - reduces illicit opioid use
 - improves treatment retention
 - some positive effects on mortality, other drug use, HIV risk behaviors, criminal activity
 - response related to dosage (60mg at minimum)
- Buprenorphine with naloxone² [Suboxone]
 - effects comparable to methadone, with fewer side effects
- Naltrexone – extended release injectable³ [Vivitrol]
 - compared to placebo, higher rates of abstinence, opioid free-days, treatment retention, and less craving
 - as effective as buprenorphine for short-term abstinence (long-term data not available)

-
- Some have implied that methadone is no longer necessary, but it is clearly still the best treatment for some, especially those with more severe OUDs or who are unsuccessful in office-based settings

**Psychiatric
Services**

Reducing Behavioral Health Inpatient Readmissions for People With Substance Use Disorders: Do Follow-Up Services Matter?

Sharon Reif, Ph.D., Andrea Acevedo, Ph.D., Deborah W. Garnick, Sc.D., Catherine A. Fullerton, M.D., M.P.H.

Psychiatric Services 68:8, August 2017

READMISSIONS EXAMPLE

Background

- People with SUDs have
 - greater complexity of care
 - more hospital-related complications
 - longer lengths of stay
 - higher costs
 - high rates of readmissions
- Prompt receipt of follow-up SUD services could reduce readmission
 - Outpatient services in community mental health centers (CMHC) reduce readmission for MH/SUD patients
 - Follow-up services post-detox reduce detox readmission

Research question

- Do targeted follow-up services received shortly after discharge from inpatient hospital or residential detoxification reduce likelihood of post-discharge behavioral health admissions among Medicaid beneficiaries with an SUD diagnosis
- Follow-up behavioral health services include
 - Medication-assisted treatment (MAT)
 - defined as a prescription fill of buprenorphine, disulfiram, acamprosate, or naltrexone or a HCPCS service code for methadone, buprenorphine, or naltrexone
 - Outpatient (OP)
 - Intensive outpatient or partial hospitalization (IOP)
 - Residential (RES)

Methods

Sample:

- Medicaid enrollees (FFS only), with an index inpatient admission with SUD diagnosis (whether or not primary)
- adults 18-64
- excludes dual Medicare/Medicaid
- 2008 claims in 10 states – all offered OP and MAT, 5 offered IOP, 3 offered RES

Outcome

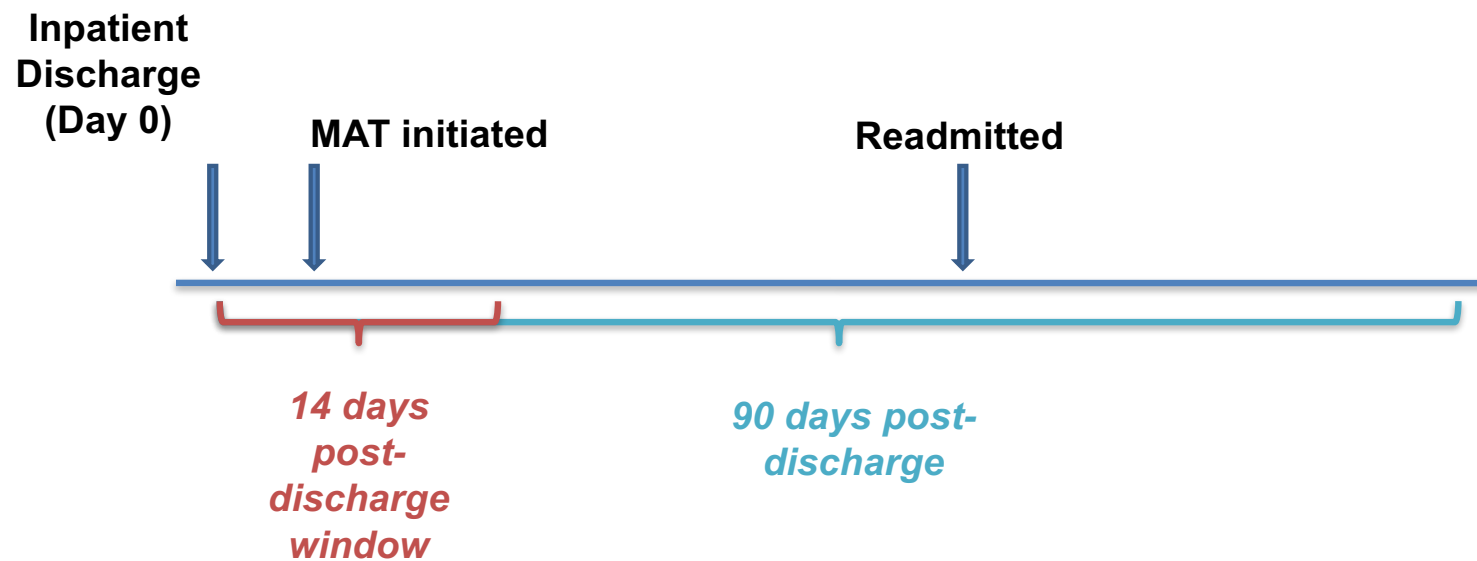
- time to a BH admission in the 90 days following discharge from index admission
 - inpatient admission with an SUD/MH primary diagnosis OR
 - residential detoxification admission

Follow-up Services: MAT, OP, IOP, RES

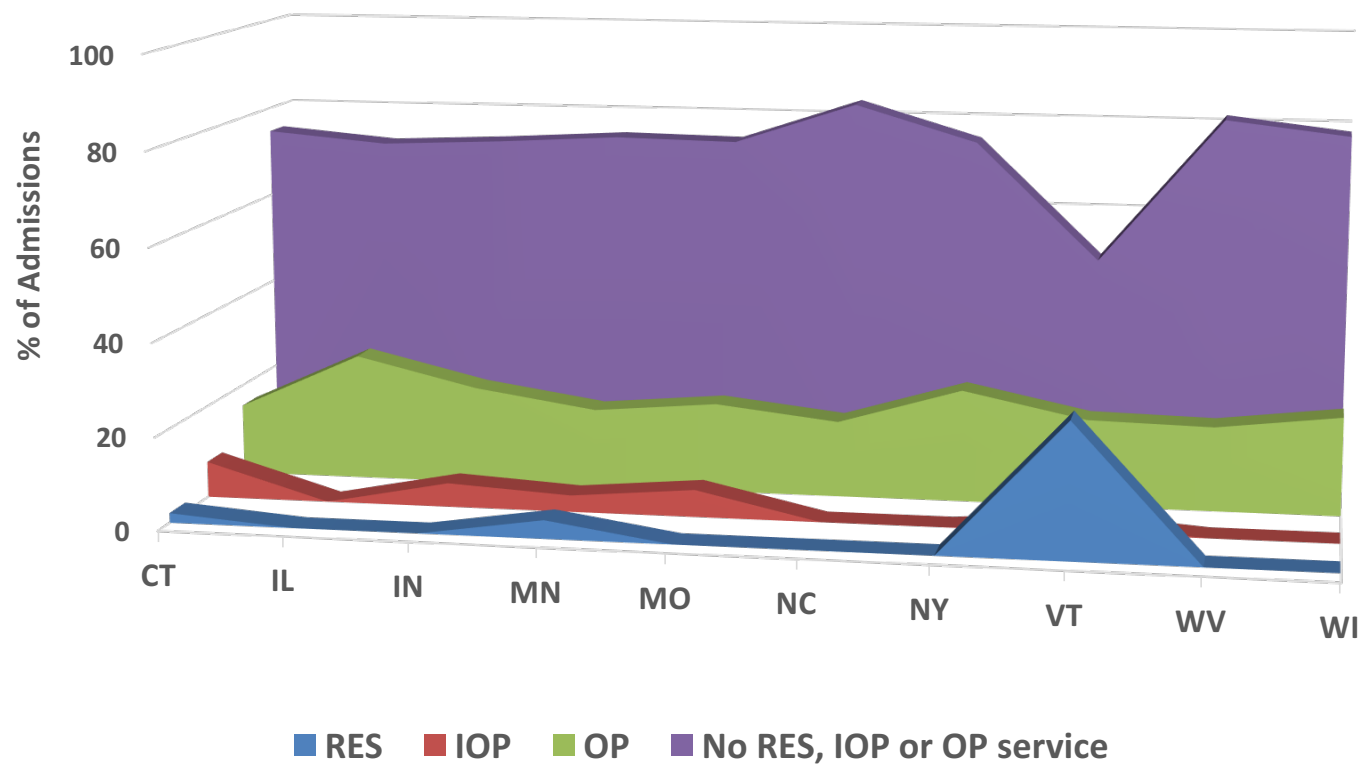
- receipt of each service during 14-days post-discharge
- # days to the first of any of the follow-up services received within 14-days post-discharge

Covariates: sociodemographics, SUD type, comorbid diagnoses, prior BH treatment, index LOS

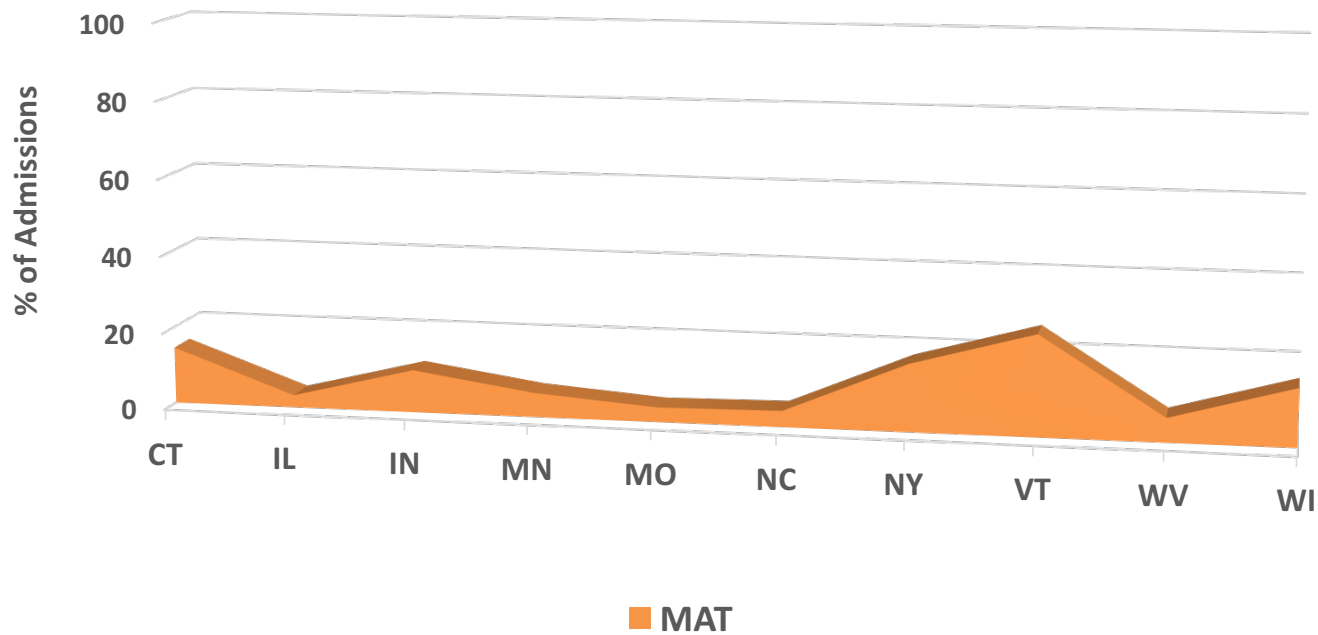
Example



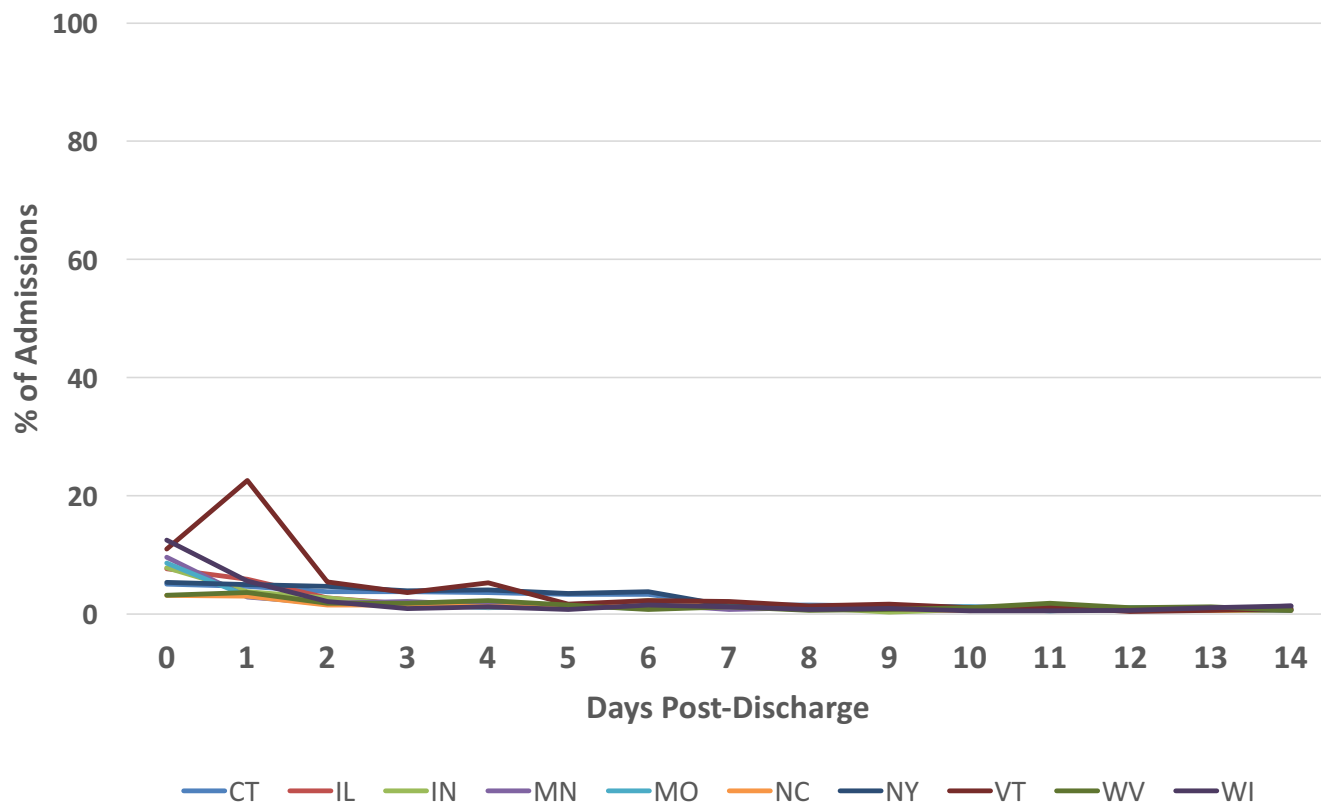
Key Independent Variable: Follow-Up BH Services in 14 Days Post-Discharge



Key Independent Variable: Follow-Up MAT in 14 Days Post-Discharge



Key Independent Variable: Days to First BH Follow-Up Service (OP, IOP, RES, MAT)



Results:

Likelihood of BH inpatient admission 90d post-dcg

- MAT associated with ~40% reduced likelihood of BH inpatient admission 90 days post-discharge
 - when controlling for other follow-up services received (OP, IOP, RES)
 - RES also associated with ~50% reduced likelihood, but only tested in 3 states
 - Controlling for state, reason for Medicaid eligibility and other covariates
- Results consistent with other studies



OPPORTUNITIES FOR IMPROVEMENT

Increasing prescribers

- Training in addiction medicine broadly and pharmacotherapy
 - confidence assessing and acknowledging addiction, providing care to patients with SUD
 - Increased willingness to prescribe and develop support systems for when they do so
 - role for professional organizations, health plans, federal and state agencies
- Disseminate guidelines for use of addiction pharmacotherapy
- Increase number of prescribers
 - primary care providers, psychiatrists, addiction medicine, others
 - nurses, physician assistants
 - specialty treatment programs with traditional abstinence-based approach – role for health plans, SAMHSA, others to encourage and support transition
- Assist in identifying psychosocial services and recovery supports
 - Develop community partners and information networks
- Work with experts/champions to support less-experienced prescribers

Encouraging use of pharmacotherapy

- Performance measures, incentive structures, recognition programs
 - emphasize pharmacotherapy as an evidence-based practice and reward quality
- Pharmaceutical company role, similar to other areas of medicine
 - educating or training providers, offering assistance with medication requirements, subsidizing copays for medications
- Partnerships with primary care settings
 - access to medical care for addiction treatment programs without in-house medical resources
 - “hub and spoke” as one model
- Other conditions might offer models for change
 - depression and HIV, as medical conditions whose treatment was once highly stigmatized and relegated only to specialty providers



SUMMARY

-
- Medications to treat addiction are effective and cost-effective
 - Utilization by patients, prescribers, and addiction treatment programs is increasing, but there is still a long way to go
 - Barriers are wide-ranging
 - Many opportunities to surmount barriers and increase medication use
 - Be a champion for medication as EBP
 - Recovery remains the goal





Thank you!

QUESTIONS?

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Resources

- ASAM National Practice Guideline for the Use of Medications in the Treatment of Addiction Involving Opioid Use
 - <https://asam.org/resources/guidelines-and-consensus-documents/npg>
- SAMHSA TIP 43 - Medication-Assisted Treatment For Opioid Addiction in Opioid Treatment Programs
 - <https://store.samhsa.gov/shin/content//SMA12-4214/SMA12-4214.pdf>
- SAMHSA TIP 49 - Incorporating Alcohol Pharmacotherapies Into Medical Practice
 - <https://store.samhsa.gov/shin/content//SMA13-4380/SMA13-4380.pdf>
- SAMHSA – Pocket Guide: Medication-Assisted Treatment of Opioid Use Disorder
 - <https://store.samhsa.gov/shin/content/SMA16-4892PG/SMA16-4892PG.pdf>
- NIAAA Helping Patients Who Drink Too Much: A Clinician's Guide
 - <https://www.niaaa.nih.gov/guide>
- SAMHSA – Medication for the Treatment of Alcohol Use Disorder: A Brief Guide
 - <https://store.samhsa.gov/shin/content//SMA15-4907/SMA15-4907.pdf>