

Addressing Opioid Overdose and Opioid Use Disorder:

Medication-Based Treatment Approaches

Alexander Y. Walley, MD, MSc

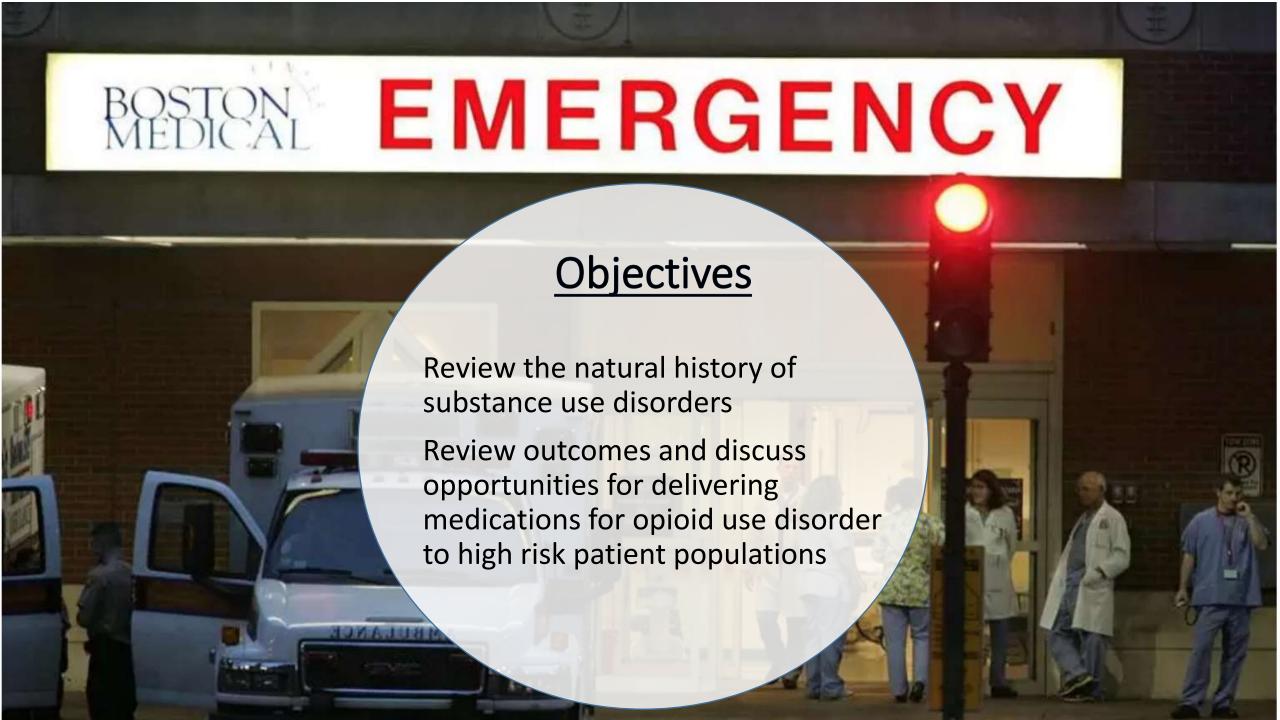
Associate Professor of Medicine, BUSM
Director, Addiction Medicine Fellowship, BMC
Medical Director, Opioid Overdose Prevention Pilot Program, MDPH

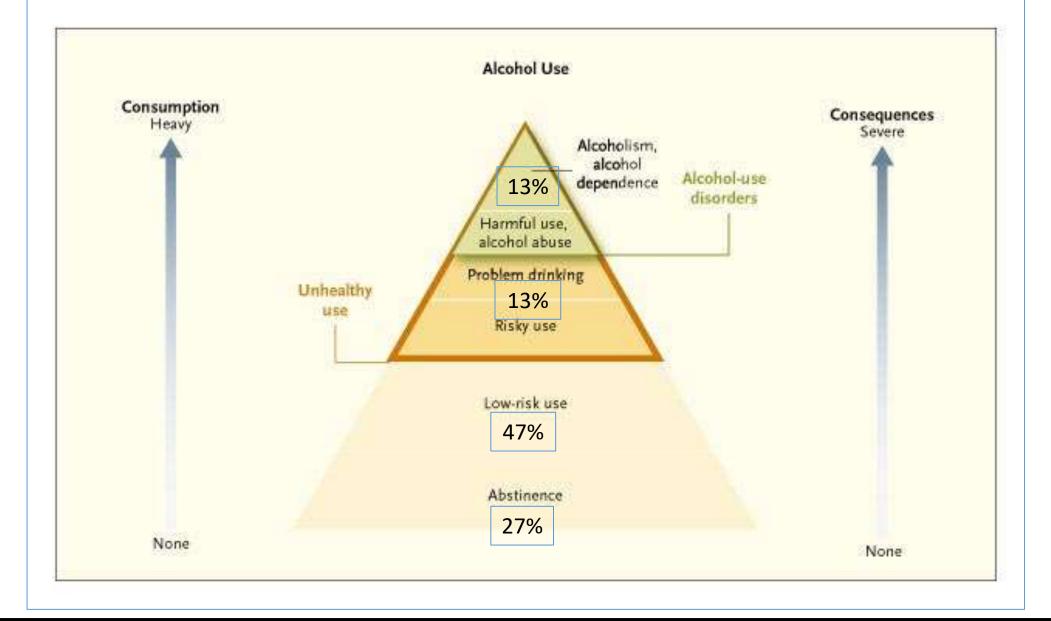
Section 35 Commission Monday, November 5, 2018











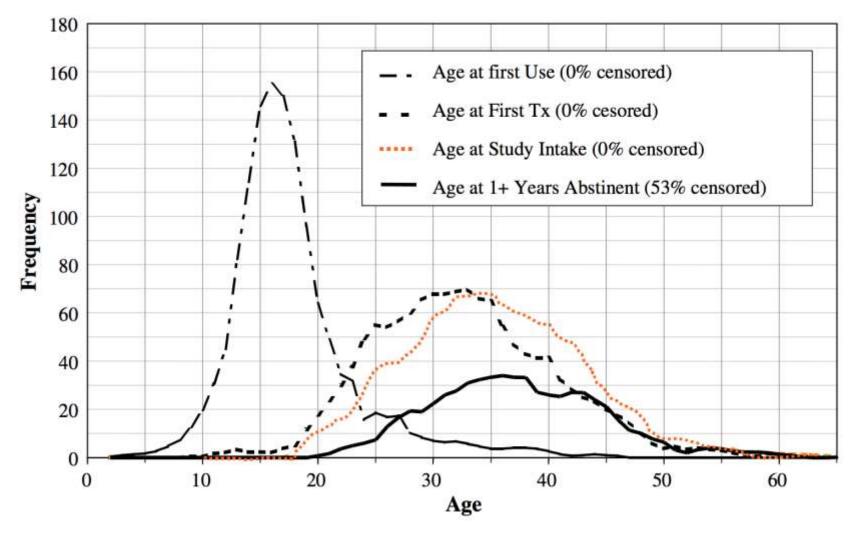






BU

Substance Use Careers Last for Decades



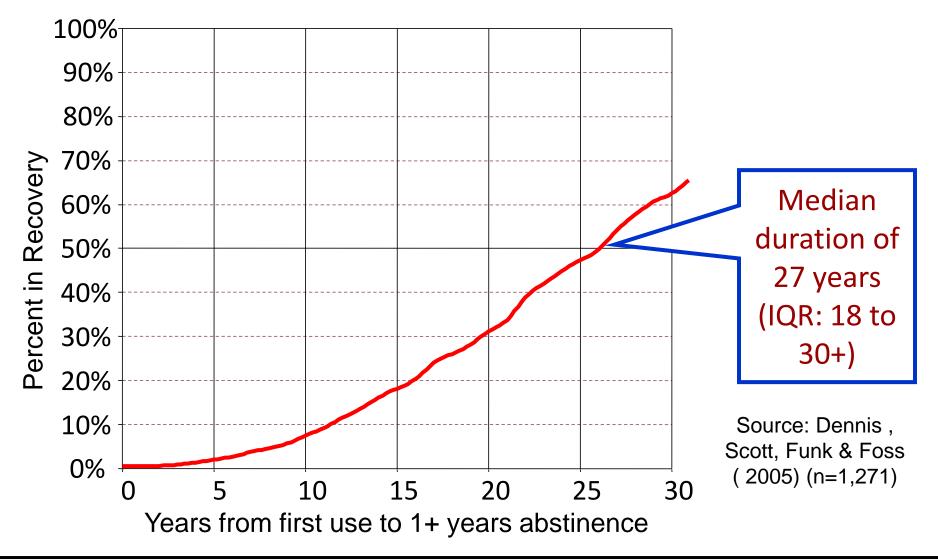
N=1271 admissions to publicly funded treatment 64% CUD 44% AUD 41% OUD 14% MUD







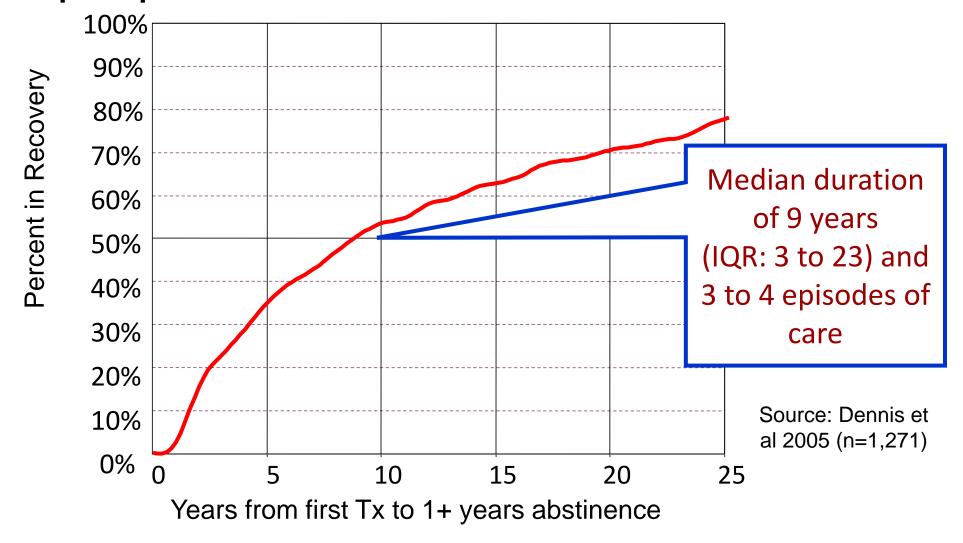
Substance Use Careers Last for Decades





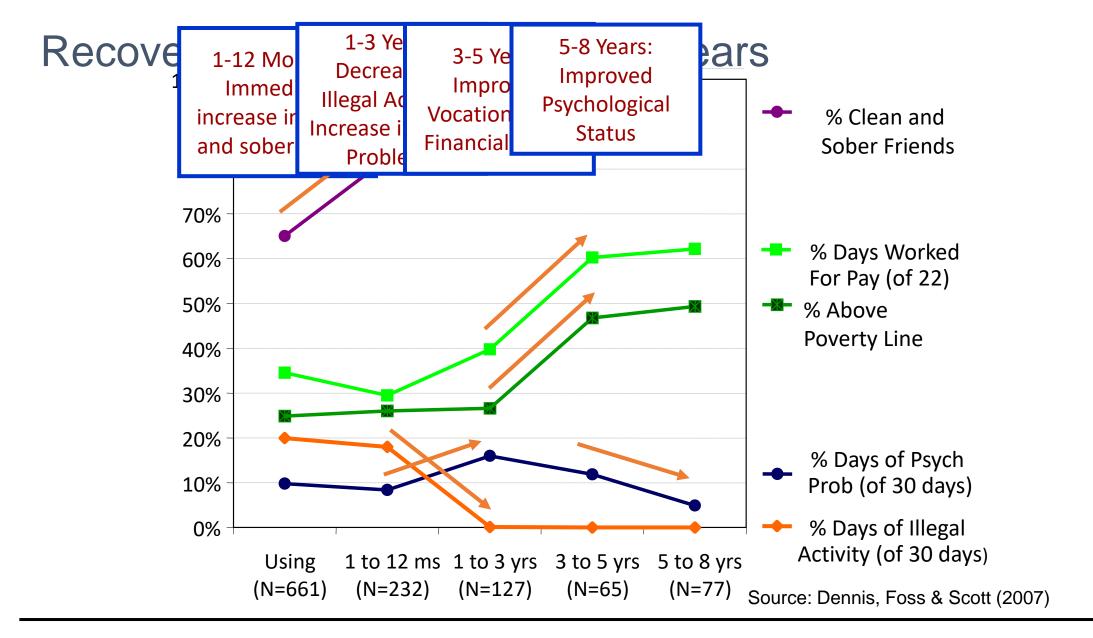


Most people do achieve abstinence















Goals of medication treatment for opioid use disorder

Relief of withdrawal symptoms

• Low dose methadone (30-40mg), buprenorphine

Opioid blockade

 High dose methadone (>60mg), buprenorphine, naltrexone

Reduce opioid craving

• High dose methadone (>60mg), buprenorphine, naltrexone

Restoration of reward pathway

- Long term (>6 months)
- methadone, buprenorphine, naltrexone







Matching Patients to Medications for Opioid Use Disorder

- The choice of methadone, buprenorphine, or naltrexone depends upon:
 - Patient preference
 - Past experience
 - Likelihood of continuing the treatment
 - Access to treatment setting
 - Ability to manage withdrawal (esp for naltrexone)



Matching Patients to Medications for OUD

| | Abstinence required? | Dosing schedule | Required Training -Regulation | Retention |
|-----------------------------|------------------------------|--|-------------------------------|--|
| Injectable IM Naltrexone | 7-10 days | Q28 day provider injection | None | Good - trial populations Poor - real-world |
| Oral Naltrexone | 7-10 days | Daily pharmacy prescription | None | No better than placebo |
| Buprenorphine | 12 hours ¹ | Daily pharmacy prescription | 8 hr MD/DO 24 hr NP/PA | Not as good as methadone |
| Methadone | No, BUT start low go slow | Daily clinic administered ² | Licensed clinic only | Best |

¹24-72 hours of abstinence needed when switching from methadone to buprenorphine



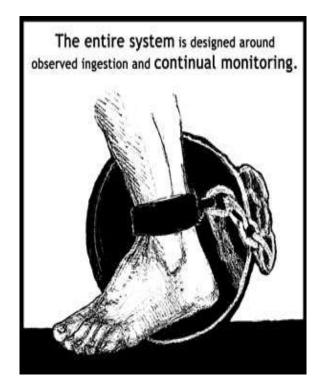


² Take homes can be earned after 60 days

Methadone Maintenance Treatment Highly Structured

- Daily nursing assessment
- Weekly individual and/or group counseling
- Random supervised toxicology screens
- Medical director oversight
- Methadone dosing
 - Observed daily ⇒ "Take homes"

- Separate system not involving primary care
- Limited access
 - 5 states: 0 clinics
 - 4 states: < 3 clinics</p>
- Inconvenient and highly punitive
- Mixes stable and unstable patients
- Lack of privacy
- No ability to "graduate"
- Stigma







Opioid Detox Outcomes

- Low rate of retention in treatment
- High rates of relapse post treatment
 - < 50% abstinent at 6 months</p>
 - < 15% abstinent at 12 months</p>
 - Increased rates of overdose due to decreased tolerance

So, how long should maintenance treatment last?

Long enough

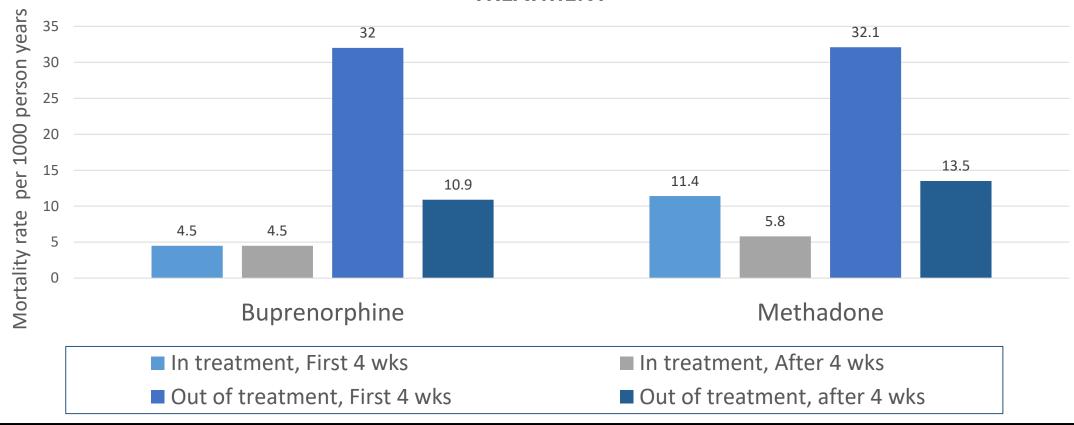






Medication saves lives. People die when medication stops.

ALL CAUSE MORTALITY RATE PER 1000 PERSON YEARS, IN AND OUT OF TREATMENT









Touchpoint:

A health care, public health, or criminal justice encounter were we can:

- identify individuals at high-risk for opioid overdose death
- deliver overdose risk reduction services, and/or
- link and engage in treatment

Examples: Post-overdose, while incarcerated, when hospitalized, residential treatment, if civilly committed

- We are missing opportunities to engage people
- When people are treated with MOUD, their mortality is cut in half or more
- When people discontinue treatment, they die
 - -> We need to make the treatment work for the patient

....not make the patient work for the treatment

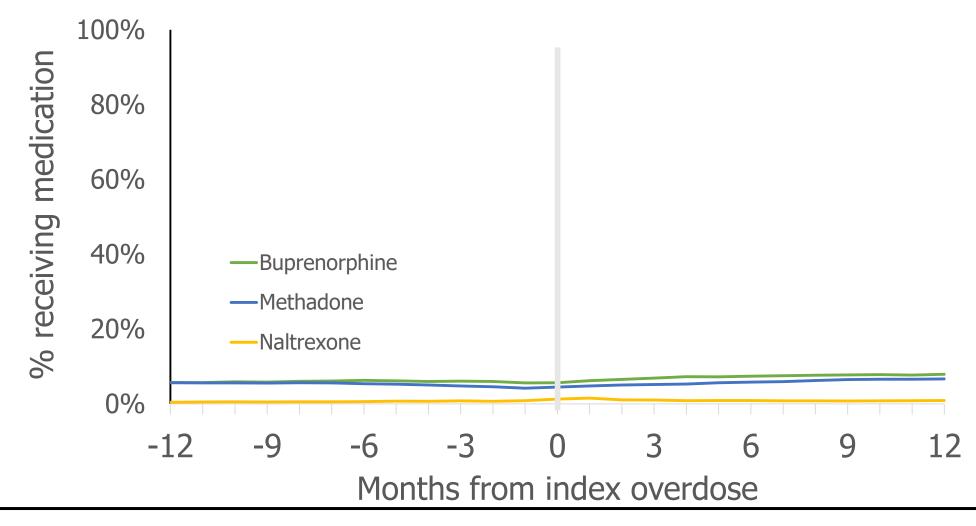






After overdose, few survivors receive medications for OUD

Cohort of 17,755 overdose survivors in MA, 2012-2014





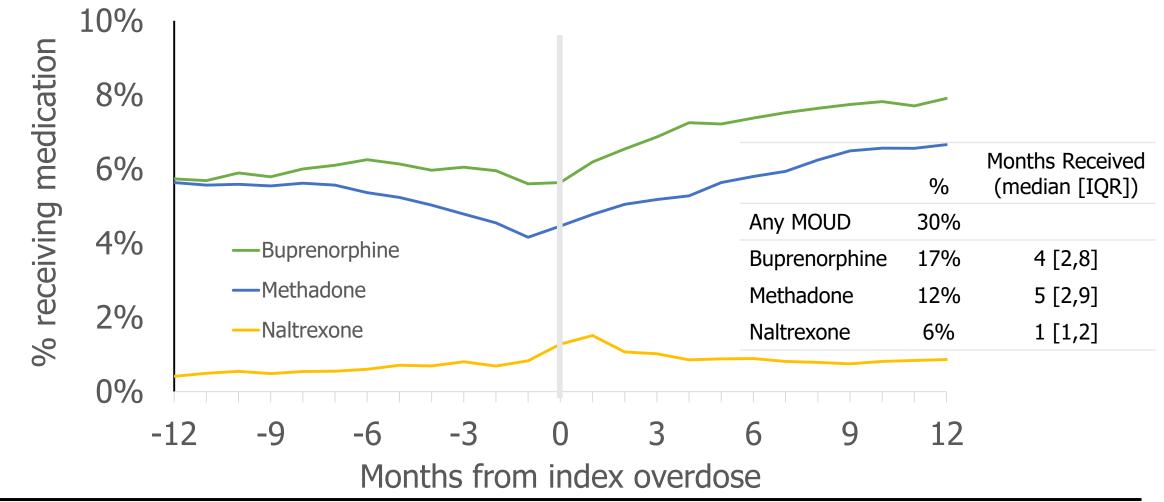
Larochelle MR, Bernson D, Land T, Stopka TJ, Wang N, Xuan Z, Bagley SM, Liebschutz JM, Walley AY. Medication for Opioid Use Disorder After Nonfatal Opioid Overdose and Association With Mortality: A Cohort Study. Annals of Internal Medicine. 2018 2018 Aug 7;169(3):137-145.



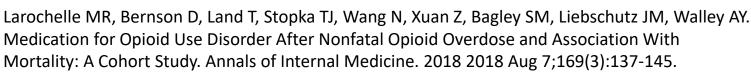


After overdose, few survivors receive medications for OUD

Cohort of 17,755 overdose survivors in MA, 2012-2014





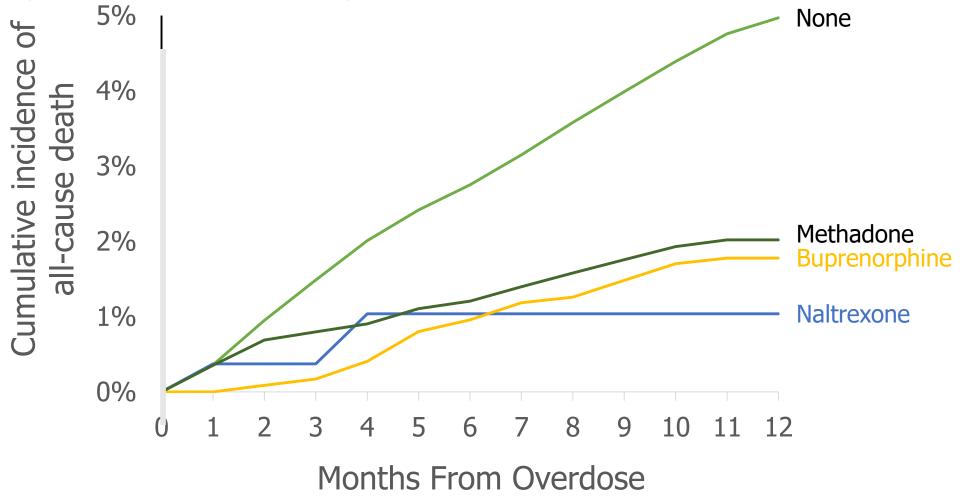




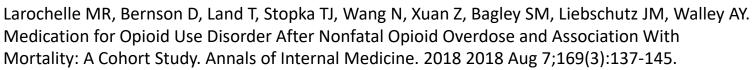


Overdose survivors who receive medications have better survival

Cohort of 17,755 overdose survivors in MA, 2012-2014





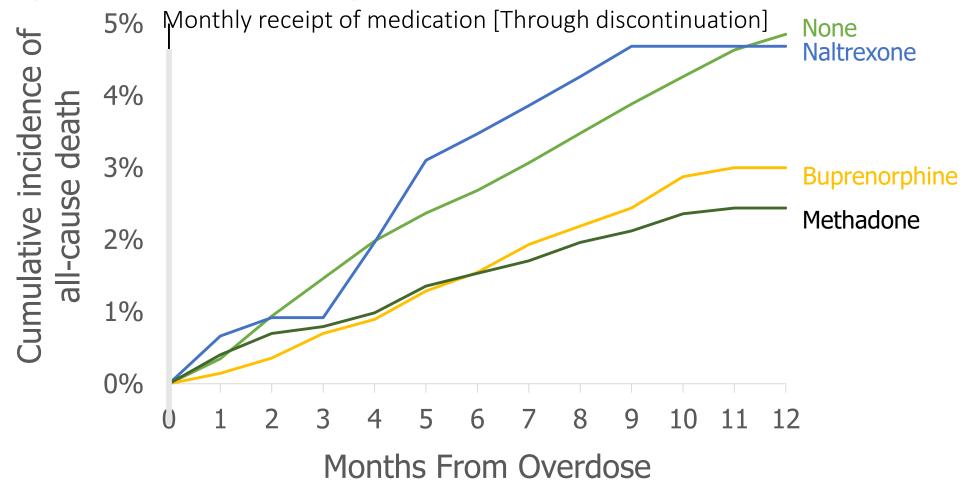




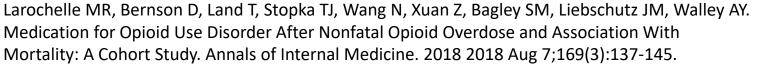


Overdose survivors who receive medications have better survival

Cohort of 17,755 overdose survivors in MA, 2012-2014











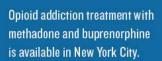
The role of medication for opioid use disorder

- Make medication opt out, instead of opt in
 - Residential programs should offer MOUD induction
 - MOUD for hospitalized/ED patients, especially post-overdose
 - Initiate and continue MOUD for incarcerated/ civilly committed
- Overdose prevention for all
 - People who are prescribed opioids and benzos
 - Overdose prevention as part of addiction treatment
 - Medical and mental health patients who use opioids
 - Incarcerated, civilly committed

I am living proof that methadone treatment works.

I started using heroin when I was 20. I went from once in awhile to every day. When you wake up sick from withdrawal, all other needs and responsibilities are subordinate. It's only through methadone treatment that I was able to stop. Today, life is centered on my kids, my family, and my music. Methadone made it possible.

- Erik

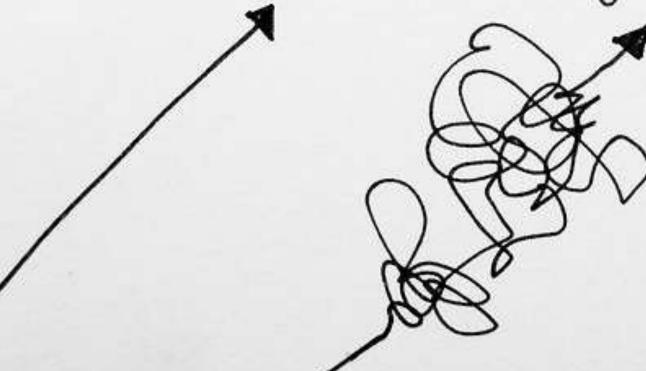




RECOVERY

Expectations

Reality



Realistic Expectations!

Addiction is a chronic relapsing condition

Over time treatment works People get better

Thank you! awalley@bu.edu



